

**QS** WORLD UNIVERSITY RANKINGS®

2021 EECA



QS Quacquarelli Symonds





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The demand for Internet of Things (IoT) has increased tremendously since COVID-19 overwhelmed our world. The application of the digital technology has compelled experts of mathematical and computer sciences from Universiti Teknologi MARA (UiTM) to co-create an interactive Dashboard with an industry partner. MyCOVID-19 Dashboard has a full-fledged historical and real time data on patterns and the current situation of the pandemic covering Malaysia's geographical areas. With only valid information displayed, the dashboard allows the viewing of hotspots at district levels and its spread by the community, health practitioners and researchers.

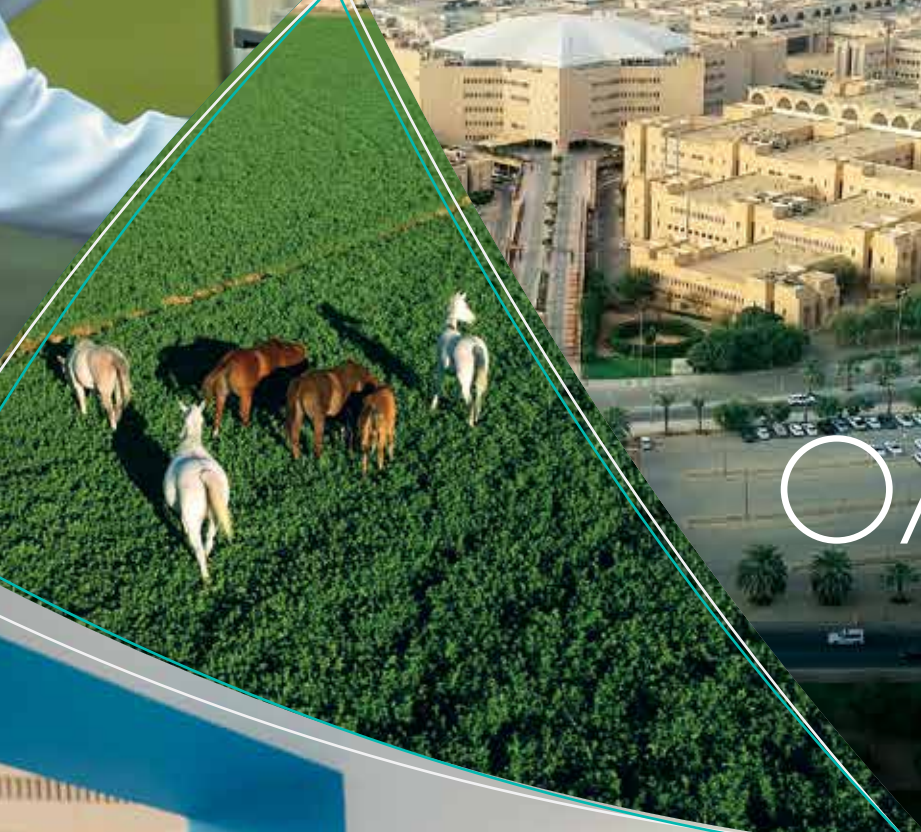
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repurpose our creations.

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# OASES OF SCIENCE & KNOWLEDGE



# Welcome

Welcome to the fifth and final Higher Education Report for 2020, and the penultimate report for the current rankings cycle before the 2021 Yearbook overviewing all rankings throughout this period. This edition, we look at the 2021 World University Rankings: Emerging Europe and Central Asia.

As with all of our region-based rankings, EECA is a culturally and geographically diverse part of the world. To give some indication of its sheer size, Russia alone eclipses Canada, China and the US, covering almost double their respective areas.

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***Student attrition remains one of the biggest concerns for universities globally..***

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In this edition, we take a look at the significantly smaller Baltic States of Lithuania, Estonia, and Latvia to understand how their higher education internationalization efforts are changing and adapting. Interestingly, like many other areas around the world, declining populations are influencing government policy for employment and skills.

We also look into the latest developments from QS Enrolment Solutions and the research behind the machine learning processes used to mitigate student attrition, one of the biggest concerns for universities globally.

As we reach the end of 2020, the year has exemplified the number of responsibilities higher education has. Unintentionally, this became a discussion point at QS APPLE 2020, and we look back on the conference to consider how the sector has been multitasking.

Wishing you and your loved ones a safe and happy end of 2020.

**Anton John Crace**

Editor  
QS Quacquarelli Symonds



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Improving **quality of life**, while empowering and enabling mankind, via **innovative AI** solutions.

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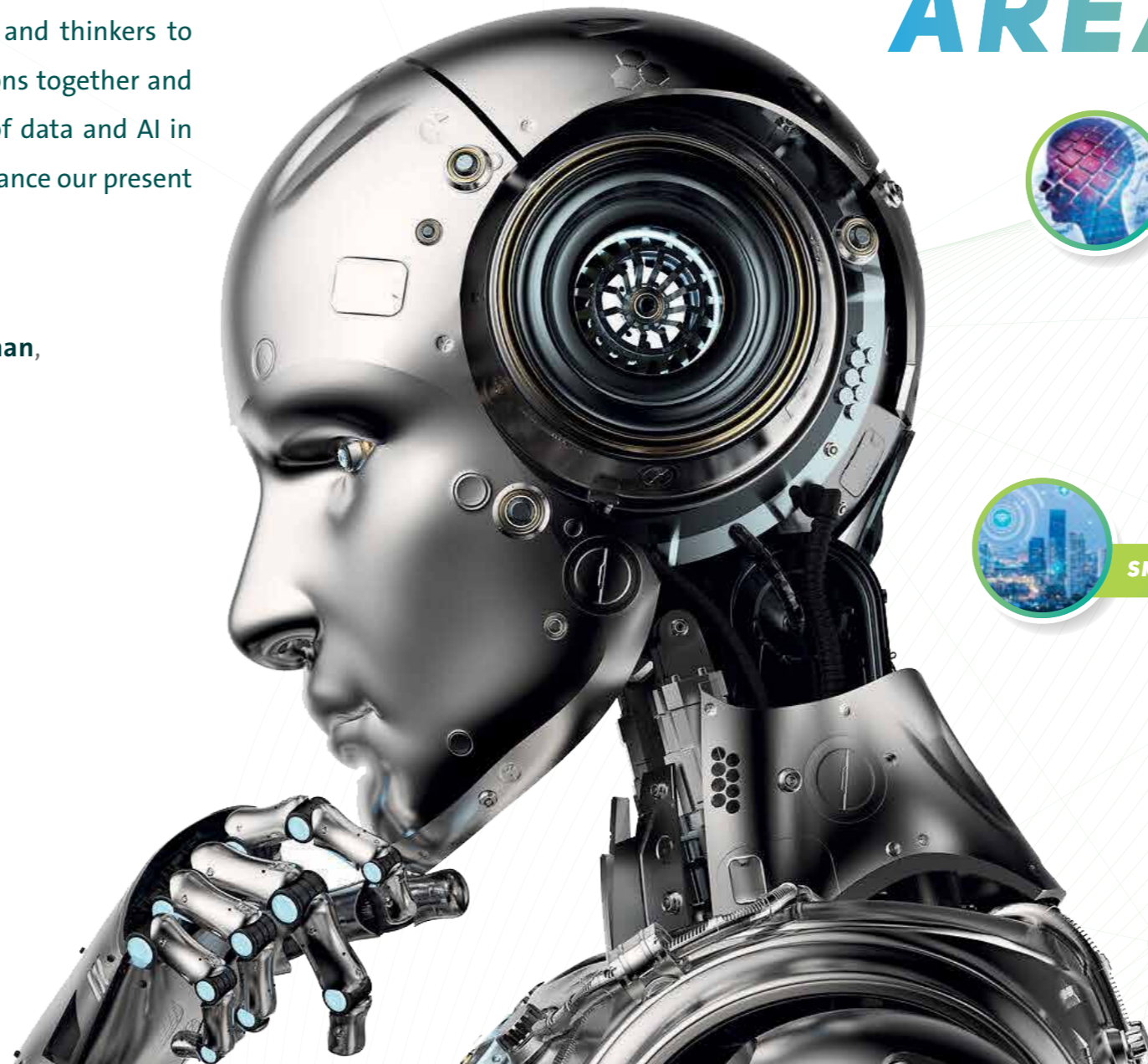


I hereby invite all dreamers, innovators, investors and thinkers to join us here in the Kingdom to achieve our ambitions together and to build a pioneering model; to unlock the value of data and AI in order to build knowledge-based economies and advance our present and future generations.



Royal Highness **Prince Mohammed Bin Salman**,  
Crown Prince, Kingdom of Saudi Arabia

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AI & CYBERSECURITY



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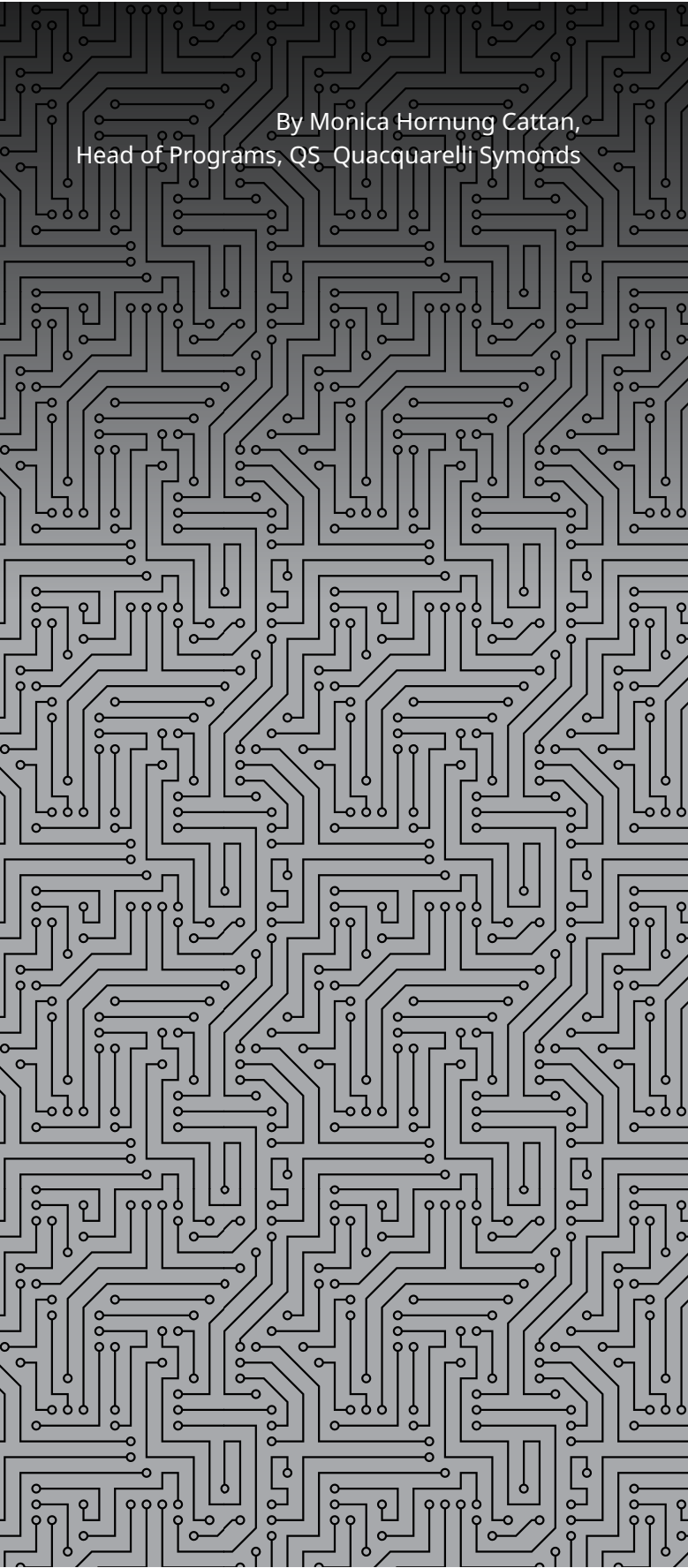
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# Multitasking

THE OVERLAPPING RESPONSIBILITIES OF HIGHER ED AT APPLE 2020



By Monica Hornung Cattan,  
Head of Programs, QS Quacquarelli Symonds

Going virtual for the very first time, the 2020 QS APPLE Conference and Exhibition in November, was a key moment for higher education in the Asia Pacific. Under the revised theme, *New Global Partnerships for Resilience and Climate Action* (“Resilience” was added later as the severity of the coronavirus pandemic became clearer), the conference showcased a strong desire for the sector to continue to discuss the future of higher education.

Throughout those presentations and conversations, the underlying discourse was that higher education institutions bear multiple responsibilities. As well as having to change and adapt during a period of uncertainty, universities are also a guiding light for the future.

This juggling act, between meeting undergraduate students’ expectations, research commitments, adapting pedagogy, learning from the past, and planning for recovery, see universities at the precipice of societal change.





### HE x SDGs

“With COVID-19, we see shrinking economies and job opportunities, rising inequalities, a surge in poverty, emerging food insecurity, and the dangerous impact of climate change and ensuring a sustainable path for development,” says Irina Bokova, former Secretary General of UNESCO.

According to Bokova, 2020 has become somewhat of a flashpoint for the UN’s Sustainable Development Goals (SDG). In addition to the ongoing global pandemic, this year has seen wildfires in Australia, Brazil, and the US, and she points to estimates that suggest the events of 2020 could push back development by a quarter of a century.

“We are about to make an even bigger push, an important commitment once again to sustainable development,” she says.

“We need more bold, more robust policies.”



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12

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REPRESENTED BY  
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15

EUROPEAN COUNTRIES  
REPRESENTED BY  
FACULTY

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GLOBALLY

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INDIA'S  
**NO.1**

UNIVERSITY IN  
SOCIAL SCIENCES,  
ARTS & HUMANITIES

RANKED  
**NO.1**

LAW SCHOOL  
IN INDIA



# KYUNGPOOK

NATIONAL UNIVERSITY



The 17 SDGs, set in 2015, aim to be “the blueprint to achieve a better and more sustainable future for all” and address global challenges such as poverty, climate change, peace, and justice. During this period of massive and continuous resetting, Bokova says Goal 4, providing quality education, has become of increased importance.

“Nowadays, we need more reinforced efforts to

implement Goal 4 because education is at the heart both of the recovery plans and of the ambition to achieve sustainable development,” she says.

Furthermore, Bokova adds, higher education is itself baked into the SDGs, creating not only the backbone for research and policy-making that will see their successful implementation in addition to teaching future

leaders, but also monitoring their inclusiveness and environmental sustainability.

“The challenge of higher education is to translate this holistic concept, which involves economic, social sciences, environmental management, and others, and to cut through intellectual disciplines, go through faculties, and also use different other methods.



### Education's negative impact

While Bokova sees higher education as the backbone for achieving the UN's SDGs, universities must also adapt their current practices within the international education space to minimize their contribution to carbon emissions.

"The way that we do business and the way we move students actually generates greenhouse gas emissions and directly contributes to the climate breakdown," says Ailsa Lamont, co-founder of the Climate Action Network for International Educators (CANIE), adding there are "levers that we can pull".

"We are not powerless in the face of this problem."

Founded in late 2019, CANIE is a grassroots advocacy group to raise awareness on the impact education mobility has on climate change. Lamont says most universities have already undertaken sustainability initiatives in teaching, research and on



campus, but there are other gaps, such as staff travel.

Rather than an additional burden for institutions, however, she says changing processes is an opportunity to reset and reconsider their practices.

"There is a way to integrate sustainability and climate action in every aspect of internationalization," she says, pointing to virtual recruitment fairs, increasing local staff in transnational activities, and

alternative student mobility programs.

Lamont tells QS, however, that CANIE's mission is clear in engaging institutions, rather than being a student focused group to education the leaders of the future.

"We don't have time," she says.

"This next five to 10 years are really the most critical so the action that needs to be taken, needs to be taken by the people who have the influence now and who have their hands on the budget strings now."



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# Come to HUFS Meet the World

Hankuk University of Foreign Studies (HUFS)

## Hankuk University of Foreign Studies, Leading a Globalized Korea

Hankuk University of Foreign Studies (HUFS), since its foundation in 1954, has been at the forefront of Korea's development, often dubbed the Korean miracle, serving as a pioneer and driving the economic growth and globalization of Korea. HUFS, a truly global university that fosters innovative leaders of the future.

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The enactment of the Critical Foreign Languages Education Act has expanded the platform for HUFS students majoring in critical foreign languages such as Vietnamese, Arabic, and Portuguese to grow into area specialists by gaining knowledge and experience transnationally. HUFS's prestige as the leading global university in Korea has been enhanced through university-wide academic programs such as HIMUN (HUFS International Model United Nations), which marks its 43rd anniversary this year, and a wide range of globalization programs which include the '7+1 Student Dispatch Program' where students study at overseas universities for one term, 'Honors Program for Area Specialists' to train and nurture area specialists with knowledge and practical experience, and a global internship program under which over 300 students gain on-the-ground overseas work experience annually.

- **Global Education Infrastructure**  
HUFS teaches 45 languages in 52 language majors
- **Academic Exchange Agreements**  
Signed with 832 universities and institutions in 98 countries
- **International Exchange Programs**  
Number of HUFS students dispatched overseas : 1,843  
Number of international students placed at HUFS : 636

### Departments that Foster Global Leaders Prepared for the Ubiquitous High-Tech Era with a Convergence Mindset

- **EICC (English for International Conferences and Communication) Department**  
The best Interpretation and Translation Curriculum in Korea
- **ELLT (English Linguistics & Language Technology) Department**  
The first-ever department that combines language and technology in Korea
- **LD (Language & Diplomacy) Division**  
An 'Elite Diplomat Academy' that nurtures future diplomats with the full range of competencies exemplified by HUFS
- **LT (Language & Technology) Division**  
An 'Elite Trade Academy' that leads global industries and international trade
- **GBT (Global Business & Technology) Division**  
Equips students with English language skills, IT capabilities, and a business mindset to become business leaders in the 21st century
- **BME (BioMedical Engineering) Division**  
Fosters education that integrates the biomedical and engineering fields by fully utilizing IT

### HUFS, A Global Hub at One with the World, has been visited by prominent political leaders

Starting with former President Washington Beltran of Uruguay in 1975, HUFS has had the honor of hosting heads of state from around the world such as Hungary, Poland, Mongolia, Portugal, and Indonesia, and most recently former President Barack Obama of the United States in 2012, not to mention Ministers and Vice Ministers of Foreign Affairs, Prime Ministers, Speakers of Upper Houses, and Speakers of Parliaments from many nations.

#### – Heads of state who visited HUFS (44 visits in total paid by heads of state, including 22 former and incumbent Presidents)

- Barack Obama, former President of the United States (2012)
- Mikhail Gorbachev, former President of the Soviet Union (2001)
- Joko Widodo, President of Indonesia (2018)
- Anibal Antonio Cavaco Silva, former President of Portugal (2017)
- Tsakhiagiin Elbegdorj, former President of Mongolia (2016)
- Bronislaw Komarowski, former President of the Republic of Poland (2013)
- Laura Chinchilla Miranda, former President of Costa Rica (2012)
- Pal Schmitt, former President of Hungary (2012)
- Abdullah Gul, former President of Turkey (2010)
- Georgi Sedefchov Parvanov, former President of Bulgaria (2009)
- Lech Kaczynski, former President of the Republic of Poland (2008)
- Traian Basescu, former President of Romania (2008)
- Elias Antonio Saca, former President of El Salvador (2006)
- Leonel Fernandez, former President of the Dominican Republic (2006)
- Traian Basescu, former President of Romania (2005)
- Joseph Kabila Kabange, former President of the Democratic Republic of the Congo (2005)
- Stanislave S. Shushkevich, former President of Belarus (2004)
- Ernesto Samper Pizano, former President of the Republic of Colombia (1996)
- Zhelyu Zhelev, former President of Bulgaria (1995)
- Alberto Kenya Fujimori, former President of the Republic of Peru (1993)
- Fidel Sanches Hernandez, former President of El Salvador (1982)
- Washington Beltran, former President of Uruguay (1975)



HANKUK UNIVERSITY  
OF FOREIGN STUDIES

## The future

Highlighting the ways education providers must multitask and meet overlapping demands and requirements, Carla Aerts, Founder and Futures of Learning Consultant at Refracted!, says while action is required now, higher education needs to also work with students in redeveloping practices and assisting them for the future.

Pointing to Greta Thunberg and the Climate Strikes undertaken by secondary school students, Aerts adds, “maybe education needs to listen more to that generation, because education is good at telling generations what to do but is not necessarily as good at listening to the Gretas and her peers in this world”.

At the same time, 2020 has created a “perfect storm”, in which universities were also required to adapt education delivery as students were unable to go on campus.

“COVID got us all to regress a little bit,” she says.

“It gave education a new problem it had to solve very quickly, to the detriment of what Generation Greta had started to unleash, which would have potentially accelerated that interdisciplinary approach to looking at problems such as climate change.”

While there are issues that must be resolved quickly, Aerts remains upbeat, and joins the calls from other APPLE speakers to broaden their stakeholder view and increase collaboration.

“Education has got a critical role to play in doing something and doing that with Generation Greta.”

*Presentations from the 2020 QS APPLE Virtual Conference and Exhibition are available on-demand until the end of December.*

*More information is available at [qsapple.org](https://qsapple.org)*







## QS Student Insights Tracker

### Student mindsets and decisions from the International Student Survey (ISS)

- Preferences for education delivery options and mode of study
- Opinions on new learnings formats and the future of education
- Desired university support for the education experience and career planning
- Motivations, reservations, and selection criteria for studying abroad and choosing a university
- Influencers, information sources, and communication preferences
- Career aspirations

### Online behavior and interaction from TopUniversities.com and TopMBA.com

- Interest in various subjects and study destinations over time
- Demographic characteristics of candidates
- Content consumption
- Technology profile

### Education landscape information by trusted sources

- Population trends by target age segment
- Higher education enrollment and graduation detail
- Student mobility patterns



# RESPONDING TO COVID-19 FOR A BETTER WORLD

In response to the Covid19- pandemic, Khalifa University has stepped up in the global fight to better detect, manage and prevent the spread of the coronavirus around the world. Our researchers are developing 3D printed biodegradable face masks, portable PCR Covid19- testing kits that can give results within 45 minutes and much more.

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At Khalifa University, we seamlessly integrate education and research to produce innovations that address the world's most pressing challenges in key areas of energy, water, healthcare, aerospace, robotics and more.

# EECA Rankings Overview

By Dr Andrew MacFarlane,  
Rankings Manager, QS Quacquarelli Symonds

Welcome to the QS World University Rankings: EECA Region 2021, our annual insight into the top performing institutions in the Emerging Europe and Central Asia region.

In what has been a challenging year for the higher education sector across the globe, the level of engagement we have seen from institutions in the EECA region has been tremendously encouraging.

We aim to provide students with our original data and insights to help empower them to make the best decisions for themselves.

To do this, we rely on the support of institutions in the region to ensure that their data is up-to-date, accurate and full.

The institutions we evaluated this year worked hard with us to verify data and check accuracy and we are grateful for these efforts.

As ever, we strive to represent universities across the world and this year we have been able to rank 400 institutions, up from 350 last year.

This increase is not only a result of more sustained efforts around data collection and institutional engagement, but a possible sign that absolute performance, in terms of reputation, research, and teaching is on the rise.

The most represented locations include Russia and



Turkey, accounting between themselves for almost a half of all ranked universities. Other major locations are Kazakhstan (27 universities), Poland and Ukraine (25 universities each), Romania (19 universities), Czech Republic (18 universities) and Hungary (17 universities).

In the research arena, we have seen an increase of 10 percent in papers and 18 percent in citations this year from the region (comparing

350 institutions year on year), which is more than double the global growth in the same period. If we look at this by institution, the average citation increase in the Top 100 for the EECA Region is almost 15 percent more than the previous year. The most represented field in terms of citations is the Natural Sciences, attracting 36 percent of the overall share of citations.

We have maintained a consistent methodology this year. This allows students and institutions alike to benchmark historical performance more easily. Therefore, we can begin to look at what the top performing institutions have in common, and some areas for growth from emerging institutions.

In line with any QS ranking, reputation forms a crucial component of the success of the top institutions.




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in South Korea (2020 QS Asia University Rankings)

in Electrical & Electronic, Mechanical, Aeronautical & Manufacturing,  
Chemical, Civil & Structural,  
Computer Science & Information Systems,  
Materials Science in South Korea  
(2020 QS World University Rankings by subject)

A photograph of a modern, multi-story university building at night. The building has a prominent cantilevered upper section with a glass facade. The interior lights are on, and the building is reflected in a body of water in the foreground. The sky is a deep blue, and there are some trees and other buildings visible in the background.

Korea Advanced Institute of Science and Technology

Encouragingly from the region, we have seen solid year on year increases in the international nominations received in our Academic Reputation surveys.

We saw an increase in international academic nominations of 33 percent between our 2019 and 2020 ranking, and a further 8 percent increase between our 2020 and 2021 ranking.

Our Employer Reputation survey grew 36 percent this year compared with last. The majority of the international academic nominations in the region are coming from Social Sciences and Management (28 percent) and Engineering and Technology (27 percent), while the majority of citations in the region are coming from the Natural Sciences (36 percent).

Reputation is a hard-earned metric that takes time to

build and effort to nurture. Institutions that score well in this tend to have well-rounded faculty offerings, a strong culture of research, and well-established global partnerships. Institutions with strong scores in reputation also tend to score well in our other indicators, bolstering the unsurprising truth that well-rounded institutions offer high quality education to their students.





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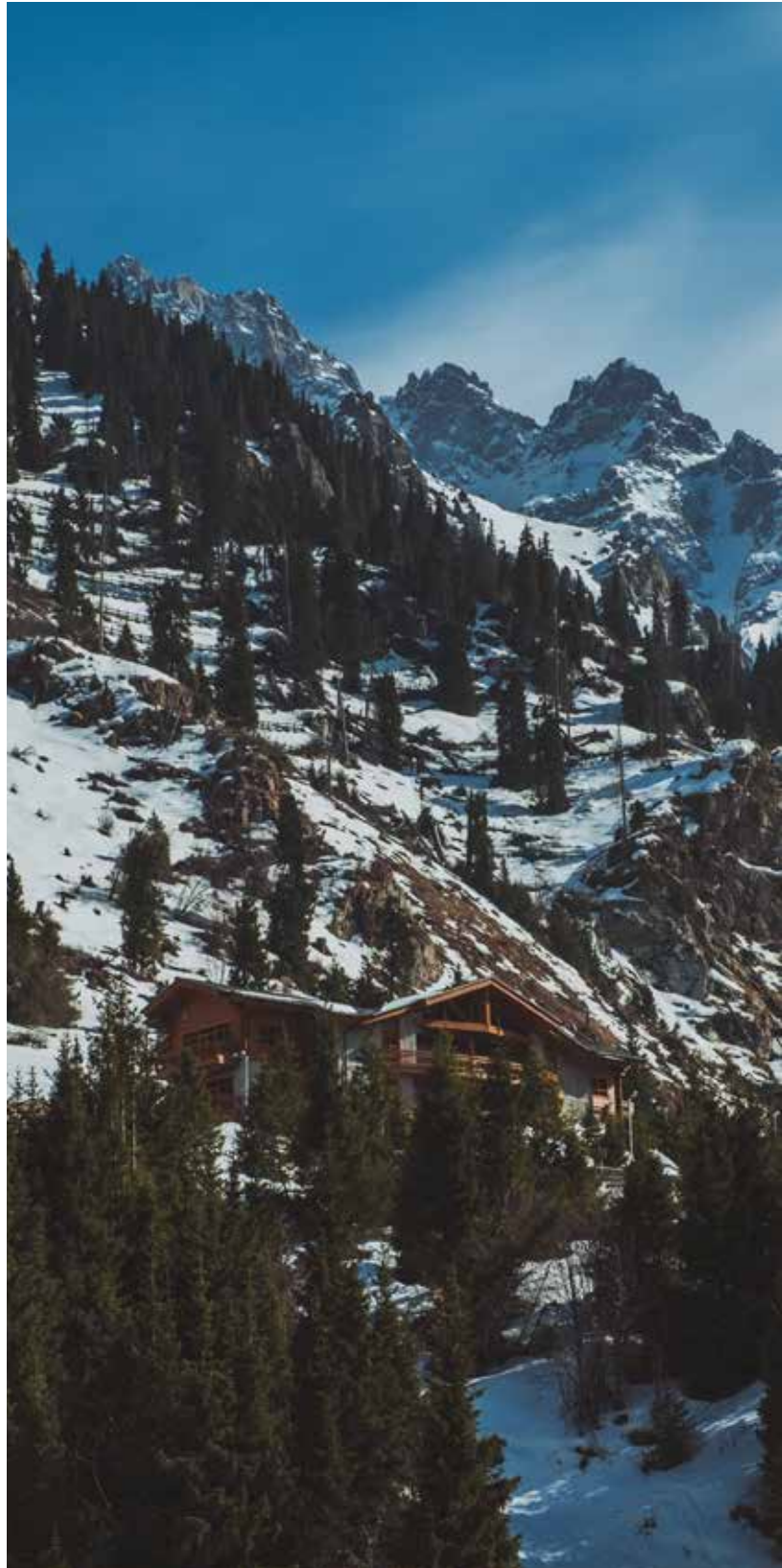


Equipping students for life after graduation is an especially important role for institutions, particularly as many students face uncertain futures.

In the annual *QS Global Employer Survey*, the most important skills for the region were problem solving, teamwork, and communication. There was some dissatisfaction from employers around language skills, leadership and commercial awareness - something institutions may wish to consider.

Professional experience was the most sought after characteristic of the global employers we surveyed.

It is paramount that institutions prepare students for the global workplace. By ensuring work experience is woven into the fabric of their education, as well as integrating these soft skills into the learning experience, institutions will be supporting their students' futures in the region and beyond.





# Be GLOBAL



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HKBU's Systems Health Lab explores complex systems in a holistic way, and its innovations will transform human lives for the better.


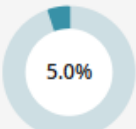
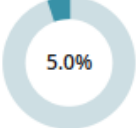
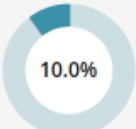
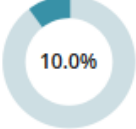
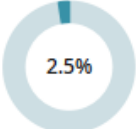
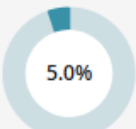
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# METHODOLOGY:

## INDICATORS & WEIGHTINGS

The QS World University Rankings : EECA have been published since 2009. The method retains key indicators of the global ranking, such as Academic Reputation, Employer Reputation, and Faculty to Student Ratio, but also considers a set of performance metrics carefully tailored for the region.

 <p>30.0%</p>	<p><b>Academic Reputation</b> Taken from the annual survey conducted by QS designed to evaluate the perceptions of academics from around the world regarding the best institutions in terms of research. This year, over 102,500 responses were recorded globally.</p>
 <p>20.0%</p>	<p><b>Employer Reputation</b> Taken from the annual QS survey aimed at gathering the views of employers around the world on the institutions providing the best professionals. This year around 52,000 responses were analysed.</p>
 <p>10.0%</p>	<p><b>Faculty Student</b> This is the ratio between the number of academic staff and number of students. A higher number of teachers per student is an indirect indicator of the commitment of the institutions to high-quality teaching.</p>
 <p>5.0%</p>	<p><b>Staff with PhD</b> This indicator attempts to assess the quality of training of the academic staff, detecting the proportion of them that have reached the highest level of education in their area of expertise. This is an indirect measure of the commitment of universities to high-quality teaching and research.</p>
 <p>5.0%</p>	<p><b>Citations per Paper</b> This ratio measures the average number of citations obtained per publication, and is a proxy of the impact and quality of the scientific work done by universities. Underlying data of papers and citations is indexed by Scopus. The paper and citations counts are normalized in an attempt to equalize the influence of citations across the five broad faculty areas.</p>
 <p>10.0%</p>	<p><b>Papers per Faculty</b> This indicator seeks to determine the average number of scientific publications (papers) produced per faculty and evaluates the productivity of research institutions. Data is extracted from Scopus. Indexed papers in the last five full years are used (from 2014 to 2018 for the 2021 edition). The paper count is normalized, ensuring that citations achieved in each of the five broad faculty areas are weighted equally.</p>
 <p>10.0%</p>	<p><b>International Research Network</b> Using data provided by Scopus, this indicator assesses the degree of international openness in terms of research collaboration for each evaluated institution. The Margalef Index, widely used in the environmental sciences, has been adapted to estimate the richness of the selected international research partners for a given institution.</p>
 <p>2.5%</p>	<p><b>International Faculty</b> The International Faculty Index is simply based on the proportion of faculty members that are international. It is a proxy measure for how internationally attractive the university is to academic staff.</p>
 <p>2.5%</p>	<p><b>International Students</b> The International Students Index is based on the proportion of students that are international. It is a proxy measure for how internationally attractive the university is to students.</p>
 <p>5.0%</p>	<p><b>Web Impact</b> This indicator seeks to assess the effectiveness with which institutions are making use of new technologies. Baseline information is provided by the Ranking Web of Universities (<a href="http://www.webometrics.info">www.webometrics.info</a>), although the results are refactored to exclude the Excellence indicator, which is already considered in the metrics related to scientific research.</p>

QS HIGHER EDUCATION REPORT FEATURING THE 2021 EMERGING EUROPE & CENTRAL ASIA RANKINGS

2021	2020	Institution Name	Country/ Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
1	1	LOMONOSOV MOSCOW STATE UNIVERSITY	RU	100.00	100.00	100.00	83.00	28.55	60.99	100.00	75.84	99.22	100.00	100.00
2	4	UNIVERSITY OF TARTU	EE	94.35	79.00	90.98	90.78	93.94	77.13	66.02	54.30	98.58	99.66	94.99
3	2	SAINT PETERSBURG STATE UNIVERSITY	RU	99.82	93.89	90.82	79.18	24.05	20.50	86.27	68.66	98.43	99.49	94.86
4	5	CHARLES UNIVERSITY	CZ	99.92	97.80	49.15	69.55	89.32	58.56	69.07	79.06	100.00	100.00	94.30
5	3	NOVOSIBIRSK STATE UNIVERSITY	RU	98.37	88.40	98.59	99.96	39.70	31.27	38.63	79.26	83.92	78.15	92.43
6	6	JAGIELLONIAN UNIVERSITY	PL	99.30	98.47	59.63	39.80	75.34	14.27	93.33	27.30	96.86	98.73	89.74
7	7	UNIVERSITY OF WARSAW	PL	99.89	99.51	42.29	43.33	73.14	29.57	99.62	24.44	97.45	99.79	89.35
8	10	MASARYK UNIVERSITY	CZ	92.96	86.77	10.14	84.02	86.50	78.45	91.44	93.26	98.65	99.99	88.87
9	11=	MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY STATE UNIVERSITY	RU	74.61	92.85	99.71	96.57	46.18	80.23	99.26	74.74	73.06	67.20	88.53
10	8	TOMSK STATE UNIVERSITY	RU	88.89	71.98	100.00	81.78	23.99	76.47	100.00	99.72	82.32	83.84	88.39
11	11=	KOÇ UNIVERSITY	TR	82.87	94.90	49.38	91.56	95.11	81.20	98.41	16.78	59.03	84.53	86.16
12=	9	CZECH TECHNICAL UNIVERSITY IN PRAGUE	CZ	87.52	98.14	47.90	94.20	28.69	69.20	16.05	80.09	90.01	99.50	86.00
12=	14	WARSAW UNIVERSITY OF TECHNOLOGY	PL	93.42	99.75	23.17	88.95	37.24	5.03	89.94	23.75	90.50	94.41	86.00
14	13	MIDDLE EAST TECHNICAL UNIVERSITY	TR	95.17	98.89	3.99	97.82	83.44	21.44	35.20	20.25	93.37	99.02	85.71
15	15	BOGAZIÇI ÜNİVERSİTESİ	TR	88.13	98.26	2.86	93.74	96.49	44.01	100.00	6.91	66.41	89.13	83.75
16	17	NATIONAL RESEARCH UNIVERSITY - HIGHER SCHOOL OF ECONOMICS (HSE)	RU	88.70	95.05	98.27	12.04	19.29	28.12	48.81	39.00	92.74	99.93	81.66
17	20	ISTANBUL TECHNICAL UNIVERSITY	TR	85.82	96.65	5.44	85.70	79.21	15.33	50.94	12.90	88.31	91.38	80.37
18	16	BILKENT UNIVERSITY	TR	87.89	90.38	11.40	91.75	99.52	97.28	36.64	29.57	52.21	90.82	80.05
19	18=	AL-FARABI KAZAKH NATIONAL UNIVERSITY	KZ	99.77	99.87	99.83	6.75	6.08	89.64	100.00	61.06	22.22	28.87	78.76
20	18=	VILNIUS UNIVERSITY	LT	87.35	87.30	82.43	36.01	72.51	7.56	1.00	11.86	97.88	73.20	78.56
21	21	SABANCI UNIVERSITY	TR	76.81	85.35	35.44	92.78	94.69	93.46	65.56	32.73	39.97	73.62	77.12
22	26=	ISTANBUL UNIVERSITY	TR	87.69	61.48	1.17	68.71	66.75	49.64	100.00	22.92	96.74	86.23	74.92
23	23	BRNO UNIVERSITY OF TECHNOLOGY	CZ	57.27	94.75	20.38	87.67	32.30	41.27	75.35	90.80	95.66	87.10	74.72
24	28	EOTVOS LORAND UNIVERSITY	HU	93.62	64.74	15.97	55.22	85.18	35.65	8.84	53.41	94.65	89.74	74.17
25	25	BELARUS STATE UNIVERSITY	BY	86.15	97.18	99.53	6.54	20.70		1.15	60.64	60.80	88.14	74.12
26	33	UNIVERSITY OF SZEGED	HU	86.10	51.92	56.20	37.02	84.75	39.86	23.98	88.82	90.66	95.50	73.10
27	35	URAL FEDERAL UNIVERSITY	RU	80.76	67.15	97.35	25.94	8.21	52.36	34.07	75.44	92.46	67.27	72.96
28	24	NATIONAL RESEARCH NUCLEAR UNIVERSITY "MEPHI" (MOSCOW ENGINEERING PHYSICS INSTITUTE)	RU	49.71	66.58	99.70	99.15	15.62	94.06	98.18	98.03	52.83	74.45	72.65
29	30	TOMSK POLYTECHNIC UNIVERSITY	RU	54.73	63.18	90.98	96.65	13.97	37.55	64.27	97.36	83.77	76.62	72.32
30	26=	UNIVERSITY OF LJUBLJANA	SI	86.20	51.64	41.43	69.14	86.55	12.72		18.95	99.26	99.91	72.30
31	22	TALLINN UNIVERSITY OF TECHNOLOGY	EE	67.65	79.43	23.32	89.28	72.52	85.86	15.53	57.11	96.55	40.15	72.07
32	36	KAZAN FEDERAL UNIVERSITY	RU	84.96	39.96	90.31	37.23	35.25	31.96	48.92	93.68	93.60	70.11	71.40
33	29	TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV	UA	82.46	87.86	45.28	35.26	18.39	4.53	98.47	12.67	71.38	52.76	71.36
34	31	BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY	RU	92.07	99.66	100.00	9.16	5.14	37.64	54.30	27.70	9.01	48.62	71.35
35	34	BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS	HU	71.29	80.83	11.89	91.71	62.94	3.45	24.41	41.95	77.63	97.82	70.99
36	46	ITMO UNIVERSITY	RU	44.52	60.13	95.26	83.56	32.96	70.06	94.13	82.20	90.90	53.94	70.07
37	44	PALACKÝ UNIVERSITY IN OLOMOUC	CZ	62.85	54.89	43.18	51.87	98.83	83.99	55.21	42.21	95.77	91.51	69.14
38	32	VILNIUS GEDIMINAS TECHNICAL UNIVERSITY	LT	65.02	87.53	29.26	60.81	86.61	41.48	39.73	62.06	52.28	47.78	67.20
39	37	UNIVERSITY OF DEBRECEN	HU	82.02	51.64	24.30	33.78	71.12	44.59	36.27	96.11	75.91	91.09	66.37
40	40	BABES-BOLYAI UNIVERSITY	RO	78.64	37.93	3.08	67.81	69.86	46.73	100.00	11.16	95.18	80.67	66.36
41	39	UNIVERSITY OF LATVIA	LV	63.47	61.57	3.95	93.40	41.57	56.92	100.00	18.31	84.51	61.77	66.17
42	45	NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY "MISIS"	RU	45.33	69.35	81.63	93.80	49.40	50.76	61.92	96.66	54.99	28.27	65.73
43=	41	HACETTEPE UNIVERSITY	TR	70.91	53.94	4.50	58.07	94.56	10.77	77.01	6.97	89.04	88.82	65.20
43=	58	RUDN UNIVERSITY	RU	59.76	78.92	94.05	11.20	12.24	39.13	1.03	99.24	83.47	79.43	65.20
45	47	PETER THE GREAT ST.PETERSBURG POLYTECHNIC UNIVERSITY	RU	60.46	51.35	89.18	42.10	35.13	56.24	36.89	98.63	74.33	80.53	64.97
46	43	WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY	PL	63.74	62.30	27.34	77.89	47.59		88.33	13.82	86.40	49.74	64.87
47	38	UNIVERSITY OF ZAGREB	HR	77.74	46.97	29.80	51.31	49.78	3.91	51.65	2.81	99.96	83.36	64.72
48	49	SOFIA UNIVERSITY "ST. KLIMENT OHRIDSKI"	BG	60.98	76.95	61.37	13.37	47.95	5.29	83.79	23.50	79.73	62.56	64.00
49	52	AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY	PL	42.86	62.42	25.13	94.18	45.90	7.84	95.64	6.11	80.01	95.10	61.73
50	53	KAUNAS UNIVERSITY OF TECHNOLOGY	LT	58.21	73.88	29.67	72.58	32.92	12.42	100.00	25.35	58.18	15.28	60.85

2021	2020	Institution Name	Country/Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
51	48	COMENIUS UNIVERSITY IN BRATISLAVA	SK	61.39	38.35	43.02	38.85	50.74	9.18	99.06	51.92	87.11	78.01	60.07
52	51	L.N. GUMILYOV EURASIAN NATIONAL UNIVERSITY	KZ	77.97	74.07	99.25	5.92	11.86	70.59	14.06	14.93	30.03	12.59	59.94
53	56	MOSCOW STATE INSTITUTE OF INTERNATIONAL RELATIONS (MGIMO UNIVERSITY)	RU	60.91	89.94	100.00	5.55	11.18	50.69	62.29	82.91		37.55	59.85
54	60	ADAM MICKIEWICZ UNIVERSITY	PL	63.43	27.34	21.64	47.05	73.54	27.60	97.75	7.99	99.17	96.87	59.72
55	96	UNIVERSITY OF CYPRUS	CY	50.27	13.81	3.48	100.00	99.09	99.76	100.00	40.78	92.99	92.20	59.71
56	42	UNIVERSITY OF BUCHAREST	RO	80.15	53.65	5.07	58.03	45.44	6.27	12.58	4.19	75.79	70.61	59.48
57	54	RIGA TECHNICAL UNIVERSITY	LV	60.85	82.56	23.76	60.38	14.53	53.97	33.20	69.50	46.22	34.56	59.10
58	57	UNIVERSITY OF WROCLAW	PL	73.38	39.65	20.17	46.96	70.01	13.43	8.27	19.85	86.80	92.18	58.76
59	55	SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA	SK	46.30	59.21	41.01	80.65	29.45	6.90	98.70	7.27	68.26	58.83	58.48
60	63	UNIVERSITY OF BELGRADE	RS	69.39	29.21	2.45	62.76	65.29	11.23	50.23	12.77	99.82	93.75	58.26
61	50	CORVINUS UNIVERSITY OF BUDAPEST	HU	59.14	82.90	3.13	37.27	76.12	22.28	53.01	65.04	51.09	38.05	58.03
62	59	UNIVERSITY OF PÉCS	HU	66.15	38.05	37.69	22.02	67.47	15.09	49.93	93.91	69.94	73.59	56.62
63	65	CZECH UNIVERSITY OF LIFE SCIENCES IN PRAGUE	CZ	40.54	33.23	6.21	86.11	59.27	71.50	100.00	86.33	96.61	48.30	55.90
64	62	UNIVERSITY OF CHEMISTRY AND TECHNOLOGY, PRAGUE	CZ	31.90	33.14	99.96	90.64	94.08	68.30	12.08	90.92	47.65	34.70	54.85
65	61	VYTAUTAS MAGNUS UNIVERSITY	LT	54.02	51.67	9.17	58.68	17.62	65.63	80.65	51.71	68.53	33.97	53.43
66	67	NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "KYIV POLYTECHNIC INSTITUTE"	UA	61.25	83.01	41.08	14.66	5.31	2.15	60.96	7.28	19.63	68.46	53.17
67	68=	V.N. KARAZIN KHARKIV NATIONAL UNIVERSITY	UA	61.27	57.37	80.64	16.82	6.70	2.67	7.87	94.30	51.77	14.51	52.28
68	66	ANKARA ÜNİVERSİTESİ	TR	71.87	34.68	12.10	15.82	49.90	8.38	15.03	13.63	86.95	83.81	51.54
69	73	SATBAYEV UNIVERSITY	KZ	68.23	81.88	68.99	9.16	6.57	5.65	1.00	6.28	12.63	2.95	50.23
70	64	LOBACHEVSKY STATE UNIVERSITY OF NIZHNI NOVGOROD	RU	48.96	26.90	76.09	35.47	14.06	8.54	100.00	42.55	55.66	41.03	49.23
71	71	TALLINN UNIVERSITY	EE	40.85	35.44	8.55	88.63	61.12	83.37	6.03	53.77	67.75	49.01	48.43
72	70	UNIVERSITY OF MARIBOR	SI	39.46	21.47	37.47	69.63	93.65	6.08	23.55	14.18	94.85	45.09	48.29
73	72	UNIVERSITY POLITEHNICA OF BUCHAREST	RO	32.38	36.44	3.19	99.28	18.89	3.61	100.00	9.15	95.16	36.99	48.22
74	77=	TECHNICAL UNIVERSITY OF OSTRAVA	CZ	19.02	47.04	7.63	99.73	10.72	7.97	99.58	58.61	71.79	63.49	46.61
75	84	PLEKHANOV RUSSIAN UNIVERSITY OF ECONOMICS	RU	37.22	68.51	46.68	13.79	37.50	37.85	67.83	48.79	23.67	49.61	46.41
76	75	MENDEL UNIVERSITY IN BRNO	CZ	31.62	21.08	42.21	68.65	44.17	34.56	88.49	82.23	67.06	34.46	45.95
77	80=	POZNAN UNIVERSITY OF TECHNOLOGY	PL	32.59	37.92	21.80	81.87	73.13			5.16	65.75	83.16	45.39
78	83	UNIVERSITY OF LODZ	PL	47.69	15.44	27.09	30.68	53.90	10.34	92.80	28.52	87.81	38.08	45.30
79	79	CRACOW UNIVERSITY OF TECHNOLOGY	PL	37.80	51.76	26.04	49.43	42.59	6.08	70.17	5.77	33.41	57.51	44.47
80	76	UNIVERSITY OF NOVA GORICA	SI	8.45	11.82	97.01	100.00	99.75	100.00	37.35	99.97	45.07	6.03	44.34
81	68=	ALEXANDRU IOAN CUZA UNIVERSITY	RO	41.48	25.47	3.52	55.52	27.97	15.15	100.00	21.52	63.34	66.32	43.42
82	105	KAZAKH NATIONAL PEDAGOGICAL UNIVERSITY ABAI	KZ	52.14	44.98	85.96	7.63	1.52	80.18	61.11	11.84	4.09	4.13	43.03
83	97	KAZAKH NATIONAL AGRARIAN UNIVERSITY	KZ	51.49	52.58	72.64	3.40	2.48	76.93	56.98	41.57	2.13	5.70	42.98
84	82	UNIVERSITY OF GDANSK	PL	52.91	11.76	21.19	32.11	61.63	20.43	5.03	6.44	88.31	70.04	42.86
85	88=	NICOLAUS COPERNICUS UNIVERSITY	PL	32.38	9.94	41.18	39.23	64.28	9.66	59.44	5.89	85.72	95.25	42.60
86	77=	UNIVERSITY OF SILESIA	PL	23.65	17.36	7.76	80.60	56.72		100.00	9.30	80.77	77.02	42.33
87	85	TOMAS BATA UNIVERSITY IN ZLIN	CZ	12.66	62.72	11.35	94.45	32.16	61.23	79.54	49.65	28.23	24.47	42.25
88	103	BELARUSIAN NATIONAL TECHNICAL UNIVERSITY	BY	40.41	88.36	43.65	2.93	6.54	7.44	1.02	34.16	13.77	22.77	41.24
89	108	GDANSK UNIVERSITY OF TECHNOLOGY	PL	27.96	28.88	18.53	87.95	62.13	8.22	1.00	13.53	79.19	34.87	41.02
90	88=	SOUTHERN FEDERAL UNIVERSITY	RU	40.45	13.27	83.34	20.86	8.29	10.84	31.71	53.67	60.34	61.12	40.73
91	101=	LODZ UNIVERSITY OF TECHNOLOGY	PL	19.69	27.95	32.46	82.98	51.65	7.68	40.93	9.07	79.91	29.18	40.33
92	94	KAZAKH-BRITISH TECHNICAL UNIVERSITY	KZ	49.20	73.91	37.13	10.18	7.75	77.32	1.00	3.00	4.25	3.38	40.09
93	80=	THE "GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IASI	RO	28.05	20.66	2.04	97.65	30.62		100.00	15.25	53.68	44.68	39.79
94	101=	WARSAW UNIVERSITY OF LIFE SCIENCES	PL	30.57	19.58	9.19	43.73	53.55	8.68	100.00	22.98	76.49	49.55	39.73
95	74	WEST UNIVERSITY OF TIMISOARA	RO	53.92	20.64	3.92	35.07	34.23	2.07	100.00	14.83	35.64	37.67	39.52
96	87	YILDIZ TECHNICAL UNIVERSITY	TR	23.40	52.04	3.38	54.44	71.95	5.42		16.35	63.75	57.20	39.31
97	95	SILESIA UNIVERSITY OF TECHNOLOGY IN GLIWICE	PL	18.38	10.99	32.29	90.05	30.81	8.12	99.41	5.97	55.15	70.08	38.50
98	113=	NATIONAL UNIVERSITY LVIV POLYTECHNIC	UA	36.23	51.70	50.80	14.65	7.86	1.09	62.72	3.14	40.61	6.50	38.44
99	93	GAZI ÜNİVERSİTESİ	TR	45.26	23.49	4.61	29.43	65.20	10.44	4.86	6.72	67.88	67.02	38.41
100	91	UNIVERSITY OF PANNONIA	HU	20.18	12.36	26.17	82.16	89.19		33.62	26.88	82.85	24.31	38.33

QS HIGHER EDUCATION REPORT FEATURING THE 2021 EMERGING EUROPE & CENTRAL ASIA RANKINGS

2021

2020

Institution Name

Country/Territory

Academic Reputation

Employer Reputation

Faculty Student

Papers per Faculty

Citations per Paper

International Faculty

Staff with PhD

International Students

International Research Network

Web Impact

Overall

101	92	NOVOSIBIRSK STATE TECHNICAL UNIVERSITY	RU	36.43	50.93	21.25	54.04	3.45	10.08	8.60	84.72	21.34	31.76	37.97
102	104	TECHNICAL UNIVERSITY OF KOSICE	SK	25.89	4.54	21.36	97.19	13.50	1.09	100.00	56.76	49.25	50.03	37.69
103	90	FAR EASTERN FEDERAL UNIVERSITY	RU	31.51	12.92	92.52	23.89	10.69	57.77	28.52	86.22	47.88	12.53	37.23
104	124	M.O.AUEZOV SOUTH KAZAKHSTAN STATE UNIVERSITY	KZ	43.10	39.97	95.25	2.34	1.41	63.47	1.05	50.81	4.25	2.86	36.78
105	98=	SAMARA NATIONAL RESEARCH UNIVERSITY (SAMARA UNIVERSITY)	RU	14.78	26.34	85.40	41.19	21.05	28.95	90.37	40.89	23.51	36.64	36.38
106	100	EGE ÜNİVERSİTESİ	TR	31.79	26.71	5.51	31.01	68.36	1.43	1.04	6.92	87.08	57.36	36.30
107	98=	NEW ECONOMIC SCHOOL, RUSSIA	RU	8.77	19.29	59.57	87.55	80.63	99.72	100.00	5.32	4.31	9.79	36.29
108	86	IVANE JAVAKHISHVILI TBILISI STATE UNIVERSITY	GE	29.67	31.40	97.41	4.76	9.73	10.77	76.15	7.25	20.46	28.14	36.10
109	110	SZENT ISTVÁN UNIVERSITY GÖDÖLLŐ	HU	21.25	20.63	40.23	25.64	70.96	8.78	77.21	58.95	53.96	25.51	35.31
110		CYPRUS UNIVERSITY OF TECHNOLOGY	CY	1.21		24.55	97.83	99.90	99.11	76.78	56.58	51.14	44.38	35.09
111	112	TECHNICAL UNIVERSITY OF LIBEREC	CZ	19.88	23.91	38.21	79.09	15.63	53.71	43.13	30.24	37.32	23.53	34.84
112	116	KLAIPEDA UNIVERSITY	LT	24.77	18.60	59.06	35.32	73.98	26.77	40.33	17.24	40.19	16.17	34.63
113	115	LITHUANIAN UNIVERSITY OF HEALTH SCIENCES	LT	15.58	17.55	100.00	20.62	75.03	2.51	10.83	100.00	31.48	38.40	34.57
114	117=	UNIVERSITY OF WEST BOHEMIA	CZ	27.68	6.84	8.96	89.98	26.66		1.00		70.28	67.43	33.68
115	128=	NATIONAL TECHNICAL UNIVERSITY "KHARKIV POLYTECHNIC INSTITUTE"	UA	26.37	44.45	74.99	9.93	4.62	2.56	45.66	30.46	12.62	19.90	33.19
116	128=	SOUTH URAL STATE UNIVERSITY	RU	32.95	25.02	43.89	19.87	6.54	6.89	45.14	46.46	29.97	49.14	32.92
117	142=	ALTAI STATE UNIVERSITY	RU	15.31	38.96	87.31	8.88	7.05	19.20	70.90	69.87	10.24	29.50	32.91
118	117=	SUMY STATE UNIVERSITY	UA	16.76	23.79	60.06	17.54	15.25	5.45	87.34	83.68	31.98	42.87	32.50
119	133=	UNIVERSITY OF NOVI SAD	RS	27.94	11.43	14.35	26.69	48.71		1.00		96.14	66.90	32.47
120	119	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA	RO	23.97	15.51	7.26	52.72	17.40	2.72	96.73	5.53	55.52	45.87	32.29
121	141	RIGA STRADINS UNIVERSITY	LV	31.91	41.72	12.97	8.78	98.23	32.91	3.58	96.96	10.73	9.71	32.22
122	123	UNIVERSITY OF SOUTH BOHEMIA	CZ	24.58	2.38	9.20	82.03	92.61				64.80	37.98	32.21
123	121	UNIVERSITY OF MISKOLC	HU	26.39	33.29	55.48	15.31	15.57	16.50	12.38	9.09	40.94	41.79	32.10
124	111	POZNAN UNIVERSITY OF LIFE SCIENCES	PL	23.83	8.99	99.97	29.32	53.22			3.08	46.95	7.88	31.91
125	106=	UNIVERSITY OF SPLIT	HR	22.85	3.02	2.56	62.43	36.42	18.66	83.16	6.54	66.56	42.61	31.54
126	106=	UNIVERSITY OF NICOSIA	CY	10.70	9.35	61.32	31.27	80.19	98.32	19.95	100.00	39.59	19.50	31.41
127	122	SIBERIAN FEDERAL UNIVERSITY	RU	29.51	13.37	10.07	19.67	12.99	71.94	100.00	13.66	37.31	63.18	31.35
128	113=	UNIVERSITY OF RIJEKA	HR	23.37	5.92	66.35	26.69	28.09				75.78	50.23	31.15
129	130	UNIVERSITY OF PARDUBICE	CZ	22.34	8.98	18.56	95.45	46.29			20.75	46.05	20.81	30.49
130	109	POLYTECHNIC UNIVERSITY OF TIMIȘOARA	RO	14.99	19.54	7.04	74.77	21.42	2.01	100.00	5.50	35.93	34.74	30.27
131	185	RUSSIAN-ARMENIAN (SLAVONIC) STATE UNIVERSITY	AM	18.58	49.97	29.08	8.06	6.72	50.95	72.12	98.33	5.59	5.42	29.85
132	142=	MYKOLAS ROMERIS UNIVERSITY	LT	15.45	29.78	6.59	36.42	84.48	24.53	53.70	64.94	19.00	27.98	29.37
133	133=	UNIVERSITY OF PRIMORSKA	SI	14.66	4.77	12.75	71.33	89.51			44.17	68.12	19.89	29.17
134	126	SS. CYRIL AND METHODIUS UNIVERSITY OF SKOPJE	MK	10.60	2.52	5.12	23.24	43.01	52.06	100.00	64.67	88.20	31.51	28.99
135	152	KAZAKH NATIONAL MEDICAL UNIVERSITY (KAZNMU)	KZ	28.94	32.31	83.93	1.83	6.25	21.46	1.00	58.56	2.52	7.09	28.68
136	140	THE RUSSIAN PRESIDENTIAL ACADEMY OF NATIONAL ECONOMY AND PUBLIC ADMINISTRATION	RU	21.63	29.29	56.81	4.64	8.34	7.96	90.11	7.85	5.52	45.12	28.60
137	149	NJSC KIMEP UNIVERSITY	KZ	26.70	54.35	11.34	19.13	9.46	99.36	1.36	44.27	2.77	5.50	28.59
138	163	AMERICAN UNIVERSITY OF CENTRAL ASIA	KG	29.77	13.44	87.41	5.19		98.98	1.00	95.45	5.39	5.31	28.57
139	154	SECHENOV UNIVERSITY	RU	22.21	17.28	55.90	14.29	5.87	35.81	63.50	75.68	28.10	4.56	28.40
140	158=	BELARUSIAN STATE UNIVERSITY OF INFORMATICS AND RADIOELECTRONICS	BY	22.88	73.82	15.34	6.21	6.60	4.42	1.00	14.28	9.56	12.83	28.18
141	131	NATIONAL RESEARCH SARATOV STATE UNIVERSITY	RU	18.85	8.47	99.09	13.84	15.29	8.35	12.02	36.88	32.07	37.12	28.15
142	147	UNIVERSITY OF NIŠ	RS	18.36	9.83	10.59	37.03	55.79			18.59	87.59	37.53	28.07
143	145=	SAINT PETERSBURG ELECTROTECHNICAL UNIVERSITY ETU-LETI	RU	18.28	15.72	63.69	36.27	2.44	17.47	50.93	82.20	10.89	20.08	27.80
144	120	UNIVERSITY OF SARAJEVO	BA	18.60	14.91	20.95	10.87	44.61	28.99	23.67	18.45	75.97	37.22	27.72
145	161	UNIVERSITY OF OSTRAVA	CZ	25.17	3.03	18.91	39.28	29.75	63.81	1.00	22.40	68.15	24.23	27.61
146	150	PAVOL JOSEF SAFARIK UNIVERSITY	SK	16.30		31.78	47.84	44.56	5.75		87.85	66.86	28.35	27.42
147	132	DOKUZ EYLÜL ÜNİVERSİTESİ	TR	18.26	20.01	1.96	25.83	67.26	8.51	1.00	1.27	59.10	70.84	27.26
148	137=	ERCIYES ÜNİVERSİTESİ	TR	10.22	4.50	2.43	42.56	94.26	15.94	87.01	7.43	47.76	48.01	27.17
149	151	E.A.BUKETOV KARAGANDA STATE UNIVERSITY	KZ	41.66	38.17	26.28	6.49	1.85	34.75	1.00	7.04	2.83	7.84	27.15
150	133=	IZMIR YÜKSEK TEKNOLOJİ ENSTİTÜSÜ (IYTE)	TR	17.62	7.86	16.67	72.17	86.33	17.19	1.28	8.64	24.90	38.50	27.06

QS HIGHER EDUCATION REPORT FEATURING THE 2021 EMERGING EUROPE & CENTRAL ASIA RANKINGS

2021	2020	Institution Name	Country/ Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
151	158=	MEDICAL UNIVERSITY SOFIA	BG	10.86	19.45	100.00	5.19	42.71	4.76	1.00	100.00	21.98	7.65	26.92
152	153	MOSCOW AVIATION INSTITUTE (NATIONAL RESEARCH UNIVERSITY)	RU	13.50	22.11	87.92	9.52	5.30	12.63	82.22	29.62	4.49	18.36	26.88
153	136	GEBZE YÜKSEK TEKNOLOJİ ENSTİTÜSÜ (GYTE)	TR	8.26	3.05	28.17	74.32	87.96	13.63	5.91	4.72	46.01	28.39	26.33
154		SLOVAK UNIVERSITY OF AGRICULTURE IN NITRA	SK	4.11	29.69	16.25	40.67	39.52	27.36	100.00	6.71	20.20	34.13	26.24
155	125	NATIONAL UNIVERSITY OF KYIV-MOHYLA ACADEMY (NAUKMA)	UA	22.62	56.61	20.09	3.36	24.70	8.24	4.18	2.53	7.22	27.76	26.08
156	148	ANADOLU UNIVERSITY	TR	14.25	14.48	22.89	20.04	85.58	4.61	1.03	8.32	34.65	87.00	25.71
157	174=	FINANCIAL UNIVERSITY UNDER THE GOVERNMENT OF THE RUSSIAN FEDERATION	RU	15.52	32.89	24.39	8.11	19.26	4.55	84.49	16.28	2.29	62.43	25.30
158	137=	UNIVERSITY DUNAREA DE JOS OF GALATI	RO	11.15	3.73	2.76	52.69	30.19	1.98	100.00	90.84	34.82	28.77	25.13
159	188	IMMANUEL KANT BALTIC FEDERAL UNIVERSITY	RU	15.88	4.56	63.01	13.55	11.85	27.23	83.99	43.29	20.95	22.42	24.82
160	145=	VORONEZH STATE UNIVERSITY	RU	29.08	7.06	23.88	13.62	3.47	13.33	57.83	54.74	23.08	41.38	24.74
161	165	UNIVERSITY OF ŽILINA	SK	16.91	1.00	11.67	89.35	18.86	13.29	23.66	5.76	38.30	22.67	24.65
162	190=	D. SERIKBAYEV EAST KAZAKHSTAN STATE TECHNICAL UNIVERSITY	KZ	28.86	23.35	83.42	3.66	3.49	7.01	1.00	4.75	1.93	3.36	24.62
163	166	SARAJEVO SCHOOL OF SCIENCE AND TECHNOLOGY	BA	4.93	25.09	94.58	10.60		72.41	35.72	67.82		3.75	24.17
164	144	UNIVERSITY OF SUCEAVA	RO	12.98	5.04	4.69	39.56	69.46	6.62	100.00	55.44	25.59	10.94	24.13
165	173	SAINT-PETERSBURG MINING UNIVERSITY	RU	14.54	20.06	19.57	32.92	14.38	39.39	100.00	39.14	4.79	12.94	24.10
166	127	ISTANBUL BİLGİ ÜNİVERSİTESİ	TR	15.51	34.29	3.22	16.92	79.42	28.21	1.43	23.84	18.83	29.64	23.89
167	155=	BUCHAREST UNIVERSITY OF ECONOMIC STUDIES	RO	10.99	34.47	2.90	15.94	17.55		100.00	8.76	13.41	51.50	23.73
168	167	BELGOROD STATE UNIVERSITY	RU	12.94	2.60	34.44	22.12	25.51	9.15	80.13	85.65	16.66	51.97	23.61
169	182	GUBKIN RUSSIAN STATE UNIVERSITY OF OIL AND GAS (NATIONAL RESEARCH UNIVERSITY)	RU	8.73	20.92	67.97	12.27	7.39	1.73	78.49	20.04	8.20	29.51	23.60
170	164	NATIONAL RESEARCH UNIVERSITY "MOSCOW POWER ENGINEERING INSTITUTE"	RU	14.62	17.65	8.68	37.54	3.00	21.69	82.31	48.62	24.67	18.59	23.59
171	177=	ATATURK UNIVERSITY	TR	15.22	6.28	1.13	36.40	72.83	10.89	1.66	6.08	52.52	57.09	23.46
172	160	MENDELEEV UNIVERSITY OF CHEMICAL TECHNOLOGY OF RUSSIA	RU	12.20	13.99	49.06	43.43	5.69	1.51	73.77	17.00	9.19	12.57	23.31
173	201-210	SZÉCHENYI ISTVÁN UNIVERSITY	HU	17.14	43.45	16.54	7.55	16.81	98.58	2.43	26.07	3.28	18.60	23.18
174	168=	EASTERN MEDITERRANEAN UNIVERSITY	NCY	7.68	8.88	6.63	16.28	96.16	100.00	1.00	100.00	39.47	26.52	23.10
175	211-220	KHOJA AKHMET YASSAWI INTERNATIONAL KAZAKH-TURKISH UNIVERSITY	KZ	24.37	16.77	61.99	6.64	1.60	18.89	1.00	74.99	10.98	3.66	22.87
176	168=	UNIVERSITY OF HRADEC KRALOVE	CZ	17.18	7.07	25.25	41.54	19.95	62.82	23.20	17.76	27.94	20.59	22.82
177	170	AMERICAN UNIVERSITY IN BULGARIA	BG	7.50	39.82	100.00	3.01				11.40		6.20	22.68
178	301-350	UNIVERSITY OF KRAGUJEVAC	RS	11.75	5.51	10.12	39.83	50.33		21.84	1.23	64.81	26.97	22.66
179	171	YEREVAN STATE UNIVERSITY	AM	25.22	24.11	24.98	12.13	9.58				35.34	19.06	22.63
180	197=	KARAGANDA STATE TECHNICAL UNIVERSITY	KZ	22.24	21.87	79.31	3.86	1.33	18.59	1.01	18.17	1.00	8.88	22.50
181	201-210	NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE	UA	14.21	20.22	38.66	4.95	11.86	1.64	100.00	2.70	20.97	8.45	22.44
182	181	PERM NATIONAL RESEARCH POLYTECHNIC UNIVERSITY	RU	10.12	5.20	66.63	21.94	2.65	4.94	86.68	25.71	13.12	25.21	22.28
183	190=	KYRGYZ-TURKISH MANAS UNIVERSITY	KG	37.45	10.79	14.94	6.20	8.41	99.98	5.89	57.30	1.64	7.61	22.24
184	172	UNIVERSITY OF ZIELONA GÓRA (UNIwersytet Zielonogórski)	PL	9.95	16.97	26.53	30.23	34.86		1.00	2.37	49.30	36.55	22.20
185	193	KAZAN NATIONAL RESEARCH TECHNICAL UNIVERSITY	RU	10.13	9.45	69.01	16.89	9.32	26.59	72.03	52.74	3.76	13.73	22.17
186	177=	CONSTANTINE THE PHILOSOPHER UNIVERSITY	SK	5.82	1.36	14.58	35.46	87.67	18.16	100.00	7.71	26.40	15.63	22.00
187	187	AKDENİZ ÜNİVERSİTESİ	TR	15.27	8.18	2.43	20.62	65.59	2.05	1.00	1.38	54.41	49.11	21.31
188	177=	CUKUROVA UNIVERSITY	TR	13.98	2.80	2.24	28.73	70.45	9.23	90.52	14.17	26.08	14.48	21.29
189	184	NATIONAL RESEARCH UNIVERSITY OF ELECTRONIC TECHNOLOGY - MIET	RU	5.17	4.06	40.52	94.82	2.88	4.06	6.24	14.51	24.14	10.63	21.23
190	137=	TRANSILVANIA UNIVERSITY OF BRASOV	RO	13.82	9.15	2.37	27.65	20.10	6.13	44.39	4.41	56.83	30.13	21.12
191	195=	YANKA KUPALA STATE UNIVERSITY OF GRODNO	BY	22.95	29.10	36.48	2.76	3.52	2.07	1.51	36.74	5.89	20.23	20.90
192	189	OZYGIN UNIVERSITY	TR	9.28	16.77	7.20	33.07	96.54	39.71	5.47	12.67	15.90	24.71	20.85
193	183	ABDULLAH GUL UNIVERSITY	TR	1.51	1.27	10.64	71.93	99.97	78.90	13.74	33.25	12.47	11.49	20.71
194	201-210	KAZAN NATIONAL RESEARCH TECHNOLOGICAL UNIVERSITY	RU	10.63	13.60	33.57	14.82	10.35	5.16	83.93	68.91	14.94	8.72	20.68
195	199=	MOSCOW STATE UNIVERSITY OF FOOD PRODUCTION	RU	8.75	17.68	96.58	2.75	5.27	54.48	1.00	19.67		17.12	20.54
196	186	TOMSK STATE PEDAGOGICAL UNIVERSITY	RU	6.27	5.98	12.64	20.18	92.41	26.90	83.22	25.33	12.16	27.95	20.48
197	221-230	ALMATY TECHNOLOGICAL UNIVERSITY	KZ	13.45	12.75	97.51	4.28	1.00	58.95	1.00	9.12	2.55	1.93	20.33
198	211-220	MOSCOW STATE UNIVERSITY OF CIVIL ENGINEERING	RU	10.26	17.86	45.45	34.73	4.42	4.04	24.89	41.10	9.82	8.92	20.08
199	201-210	HERZEN STATE PEDAGOGICAL UNIVERSITY OF RUSSIA	RU	13.23	4.63	28.15	5.91	4.92	2.88	89.05	56.61	25.93	29.47	19.93
200	201-210	PERM STATE UNIVERSITY	RU	19.94	4.35	54.05	12.83	5.17	14.16	51.33	7.25	6.78	18.68	19.89

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2021	2020	Institution Name	Country/ Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
201-210		EUROPEAN UNIVERSITY CYPRUS (EUC)	CY	-	-	-	44.23	71.13	99.52	41.73		27.55	12.00	18.7 - 19.82
201-210	157	MARMARA UNIVERSITY	TR	-	-	-	14.76	63.98	11.23	8.57	10.52	51.86	65.09	18.7 - 19.82
201-210	211-220	NATIONAL BOHDAN KHMELNYTSKY UNIVERSITY OF CHERKASY	UA	-	-	95.50	-	90.86	8.87	-	-	-	-	18.7 - 19.82
201-210	194	PÁZMÁNY PÉTER CATHOLIC UNIVERSITY	HU	19.42	-	15.51	18.01	69.00		6.80	15.17	16.76	18.29	18.7 - 19.82
201-210		SOUTH EAST EUROPEAN UNIVERSITY	MK	-	-	-	15.31	84.61	100.00	100.00	100.00	12.19	-	18.7 - 19.82
201-210	180	TOBB UNIVERSITY OF ECONOMICS AND TECHNOLOGY	TR	-	-	-	56.58	63.65	12.55	18.06	-	17.52	26.52	18.7 - 19.82
201-210	211-220	TYUMEN STATE UNIVERSITY	RU	-	-	58.54	-	8.46	18.79	3.50	32.76	30.67	21.45	18.7 - 19.82
201-210	162	UNIVERSITY OF OPOLE	PL	-	-	29.79	18.20	22.98	10.88	77.84	27.31	27.87	21.73	18.7 - 19.82
201-210	221-230	UNIVERSITY OF RZESZÓW	PL	15.23	-	14.71	20.62	25.95			-	65.37	14.47	18.7 - 19.82
201-210	176	UNIVERSITY OF SIBIU	RO	14.34	-	-	34.35	-	-	100.00	-	14.23	28.69	18.7 - 19.82
211-220		BAHCESEHIR UNIVERSITY	TR	-	9.25	-	38.62	60.46	23.14	35.98	67.10	16.74	28.35	18.17 - 18.65
211-220	201-210	BAKU STATE UNIVERSITY	AZ	22.76	-	13.27	-	14.74		91.40	-	13.02	-	18.17 - 18.65
211-220	197=	GALATASARAY ÜNİVERSİTESİ	TR	-	16.81	14.51	17.22	100.00	68.02	9.42	-	-	14.46	18.17 - 18.65
211-220	174=	LATVIA UNIVERSITY OF LIFE SCIENCES AND TECHNOLOGIES	LV	18.41	15.33	-	47.13	-				26.38	-	18.17 - 18.65
211-220	201-210	OGAREV MORDOVIA STATE UNIVERSITY	RU	-	-	31.05	-	-	6.94	93.18	59.35	15.61	53.46	18.17 - 18.65
211-220	221-230	OMSK STATE TECHNICAL UNIVERSITY	RU	-	-	98.11	-	-	-	-	73.32	-	16.79	18.17 - 18.65
211-220	221-230	RUSSIAN STATE UNIVERSITY FOR THE HUMANITIES	RU	22.97	9.84	15.73	-	-	7.05	66.59	13.85	-	18.35	18.17 - 18.65
211-220	155=	TECHNICAL UNIVERSITY OF LUBLIN	PL	15.77	-	-	39.05	35.79			32.21	23.65	28.18	18.17 - 18.65
211-220	195=	UNIVERSITY OF BIALYSTOK	PL	20.67	-	26.07	24.12	41.54			15.36	21.35	19.92	18.17 - 18.65
211-220	190=	UNIVERSITY OF CRAIOVA	RO	-	-	-	38.19	-	-	100.00	-	16.35	28.20	18.17 - 18.65
221-230	251-300	AZERBAIJAN STATE UNIVERSITY OF ECONOMICS	AZ	20.96	32.49	14.20	-	-	19.23	7.54	-	-	-	16.86 - 18.08
221-230		BELARUSIAN STATE TECHNOLOGICAL UNIVERSITY	BY	14.75	28.92	12.76	-	-		53.38	-	-	16.59	16.86 - 18.08
221-230	221-230	CANKAYA ÜNİVERSİTESİ	TR	-	-	-	59.42	99.79	15.23	-	-	24.23	19.56	16.86 - 18.08
221-230	211-220	IZMIR EKONOMI ÜNİVERSİTESİ	TR	-	-	-	17.75	84.53	90.25	-	-	27.01	24.63	16.86 - 18.08
221-230	241-250	KAZAKH ABLAI KHAN UNIVERSITY OF INTERNATIONAL RELATIONS AND WORLD LANGUAGES	KZ	22.34	24.98	34.01	-		24.83	-	11.13		-	16.86 - 18.08
221-230	201-210	SAINT-PETERSBURG STATE INSTITUTE OF TECHNOLOGY	RU	-	-	83.10	14.13	-		-	-	-	-	16.86 - 18.08
221-230	241-250	ST.PETERSBURG STATE UNIVERSITY OF ECONOMICS	RU	16.03	16.00	-	-	21.12	-	82.21	31.52		-	16.86 - 18.08
221-230		TAJIK NATIONAL UNIVERSITY	TJ	-		97.22	-		-	4.27	99.26		-	16.86 - 18.08
221-230	211-220	UNIVERSITY OF ORADEA	RO	13.75	-	-	18.36	15.49	-	100.00	-	21.25	16.89	16.86 - 18.08
221-230	201-210	UNIVERSITY OF SOPRON	HU	-	-	-	31.87	66.33	13.25	22.46	11.19	33.21	-	16.86 - 18.08
221-230	221-230	VARNA UNIVERSITY OF MANAGEMENT (VUM)	BG	-	-	68.61	-		81.15	-	99.56	-	-	16.86 - 18.08
231-240	201-210	FIRAT ÜNİVERSİTESİ	TR	-	-	-	41.34	86.88	-	-	-	30.23	25.38	16.19 - 16.84
231-240		IVAN FRANKO NATIONAL UNIVERSITY OF LVIV	UA	-		36.61	11.36	-	-	90.12	-	44.91	14.31	16.19 - 16.84
231-240	201-210	J.J. STROSSMAYER UNIVERSITY, IN OSIJEK	HR	-	-	-	24.86	37.49				46.76	19.81	16.19 - 16.84
231-240	241-250	MOSCOW TECHNICAL UNIVERSITY OF COMMUNICATIONS AND INFORMATICS (MTUCI)	RU	-	-	89.22	-	-	-	40.17	24.22		-	16.19 - 16.84
231-240	199=	ÓBUDA UNIVERSITY	HU	-	12.52	-	60.45	16.01	12.44	-	13.02	15.62	21.91	16.19 - 16.84
231-240	251-300	RUSSIAN STATE SOCIAL UNIVERSITY	RU	-	-	61.87	-	47.71			68.55		43.11	16.19 - 16.84
231-240	251-300	SIMON KUZNETS KHARKIV NATIONAL UNIVERSITY OF ECONOMICS	UA	-	23.65	22.13	-	-	-	83.81	41.75		-	16.19 - 16.84
231-240	211-220	TOMSK STATE UNIVERSITY OF CONTROL SYSTEMS AND RADIOELECTRONICS	RU	-	14.53	11.69	32.38	8.61	35.26	3.89	70.03	-	20.86	16.19 - 16.84
231-240	251-300	VOLGOGRAD STATE UNIVERSITY	RU	-	-	17.70	12.33	-	7.81	100.00	18.64	11.71	28.25	16.19 - 16.84
241-250	241-250	ATILIM ÜNİVERSİTESİ	TR	-	-	-	25.23	90.56	14.10	-	19.08	36.20	20.06	15.22 - 16.11
241-250	211-220	DONETSK NATIONAL TECHNICAL UNIVERSITY	UA	-	-	92.56	-	-		-	-	-	15.01	15.22 - 16.11
241-250	231-240	GDYNIA MARITIME UNIVERSITY	PL	-	-	96.46	10.89	19.67					-	15.22 - 16.11
241-250	251-300	I.ZHANSUGUROV ZHETYSU STATE UNIVERSITY	KZ	14.16	28.63	-	-	-	86.28	2.62	-		-	15.22 - 16.11
241-250	221-230	IRKUTSK STATE UNIVERSITY	RU	12.89	-	25.20	-	12.76	5.85	52.55	12.51	13.77	-	15.22 - 16.11
241-250	221-230	KHAZAR UNIVERSITY	AZ	-	-	45.13	-		98.61	33.38	55.48	-	-	15.22 - 16.11
241-250	221-230	MOSCOW STATE LINGUISTIC UNIVERSITY	RU	-	-	72.99			28.43	-	31.96		-	15.22 - 16.11
241-250	211-220	MOSCOW STATE UNIVERSITY OF TECHNOLOGY STANKIN	RU	14.57	9.60	-	45.98	-	15.53	-	44.99	-	-	15.22 - 16.11
241-250	231-240	NORTHERN (ARCTIC) FEDERAL UNIVERSITY NAMED AFTER M.V. LOMONOSOV	RU	-	-	28.53	10.18	-	27.92	95.05	21.53	-	40.07	15.22 - 16.11
241-250	251-300	RUSSIAN STATE AGRARIAN UNIVERSITY - MOSCOW AGRICULTURAL ACADEMY NAMED AFTER K.A.TIMIRYAZEV (RSAU-MTAA)	RU	15.35	22.69	-	-	-	-	47.00	12.72	-	-	15.22 - 16.11



QS HIGHER EDUCATION REPORT FEATURING THE 2021 EMERGING EUROPE & CENTRAL ASIA RANKINGS

2021	2020	Institution Name	Country/ Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
251-300	251-300	ABANT IZZET BAYSAL ÜNİVERSİTESİ	TR	-	-	-	13.81	64.67	4.66	-	-	39.23	28.84	11.66 - 15.21
251-300	241-250	AMERICAN UNIVERSITY OF ARMENIA	AM	12.90	9.89	20.82	12.59	46.96	-	-	12.30	-	-	11.66 - 15.21
251-300	251-300	ARMENIAN STATE UNIVERSITY OF ECONOMICS	AM	-	-	97.74	-	-	-	-	-	-	-	11.66 - 15.21
251-300	241-250	BASKENT UNIVERSITY	TR	-	-	31.67	18.55	37.39	17.96	-	-	9.89	34.38	11.66 - 15.21
251-300	231-240	CANAKKALE ONSEKİZ MART ÜNİVERSİTESİ	TR	-	-	-	24.48	63.97	11.56	-	-	37.91	36.96	11.66 - 15.21
251-300	231-240	DAUGAVPILS UNIVERSITY	LV	15.07	-	40.40	16.48	8.38	26.67	15.84	-	-	-	11.66 - 15.21
251-300	251-300	DON STATE TECHNICAL UNIVERSITY	RU	-	11.04	-	-	-	-	18.57	41.43	9.74	12.25	11.66 - 15.21
251-300	241-250	DONETSK NATIONAL UNIVERSITY	UA	13.19	-	61.19	-	-	-	-	-	-	-	11.66 - 15.21
251-300	301-350	DOSTOEVSKY OMSK STATE UNIVERSITY	RU	-	-	72.90	-	-	-	-	17.44	-	-	11.66 - 15.21
251-300	251-300	GAZIOSMANPAŞA ÜNİVERSİTESİ	TR	-	-	-	22.27	79.75	6.51	-	-	12.60	22.90	11.66 - 15.21
251-300	301-350	GEORGIAN TECHNICAL UNIVERSITY	GE	21.30	17.25	-	-	-	-	-	-	-	-	11.66 - 15.21
251-300	251-300	GOCE DELCHEV UNIVERSITY	MK	-	-	-	12.55	28.27	99.97	100.00	9.94	20.25	17.29	11.66 - 15.21
251-300	221-230	HARRAN ÜNİVERSİTESİ	TR	-	-	-	16.30	46.92	-	17.73	78.98	11.00	40.47	11.66 - 15.21
251-300	251-300	ISTANBUL AYDIN UNIVERSITY	TR	-	10.21	-	-	40.65	38.65	-	86.26	-	18.42	11.66 - 15.21
251-300	251-300	ISTANBUL GELİSİM UNIVERSITY	TR	-	-	-	-	66.41	54.94	65.70	26.06	-	11.52	11.66 - 15.21
251-300	251-300	JAN EVANGELISTA PURKYNĚ UNIVERSITY	CZ	-	-	-	41.35	49.86	-	-	-	29.08	15.13	11.66 - 15.21
251-300	241-250	KHARKIV NATIONAL UNIVERSITY OF RADIO ELECTRONICS	UA	-	9.60	24.74	21.10	-	-	56.75	30.09	15.24	19.95	11.66 - 15.21
251-300	301-350	MOLDOVA TECHNICAL UNIVERSITY	MD	-	-	19.94	-	88.06	-	-	-	-	-	11.66 - 15.21
251-300	251-300	MOSCOW PEDAGOGICAL STATE UNIVERSITY	RU	15.17	-	-	-	11.92	-	29.75	41.72	10.11	-	11.66 - 15.21
251-300	231-240	MOSCOW TECHNOLOGICAL UNIVERSITY	RU	-	-	11.69	17.70	-	-	21.27	10.09	22.47	12.22	11.66 - 15.21
251-300	251-300	NARXOZ UNIVERSITY	KZ	16.25	29.59	-	-	-	21.71	-	-	-	-	11.66 - 15.21
251-300	241-250	NATIONAL AVIATION UNIVERSITY	UA	-	16.99	49.33	-	-	7.45	2.60	11.78	-	31.72	11.66 - 15.21
251-300	251-300	NORTH-CAUCASUS FEDERAL UNIVERSITY	RU	-	-	27.82	-	-	13.35	69.22	20.09	-	-	11.66 - 15.21
251-300	231-240	NORTH-EASTERN FEDERAL UNIVERSITY IN YAKUTSK	RU	-	-	26.11	10.42	7.98	22.02	26.98	10.52	41.26	29.67	11.66 - 15.21
251-300	251-300	NOSOV MAGNITOGORSK STATE TECHNICAL UNIVERSITY	RU	-	-	15.34	13.79	-	-	90.06	14.93	8.34	17.47	11.66 - 15.21
251-300	251-300	PAVLODAR STATE UNIVERSITY NAMED AFTER TORAIKHYROV	KZ	18.86	15.93	22.12	-	-	22.40	-	-	-	-	11.66 - 15.21
251-300	231-240	PENZA STATE UNIVERSITY	RU	-	-	14.02	-	-	-	99.94	49.40	17.14	16.85	11.66 - 15.21
251-300	241-250	PETROZAVODSK STATE UNIVERSITY	RU	-	-	29.49	-	-	25.66	47.27	17.39	11.38	24.11	11.66 - 15.21
251-300	251-300	S.SEIFULLIN KAZAKH AGRO TECHNICAL UNIVERSITY	KZ	19.66	14.78	22.87	-	-	36.66	3.88	13.41	-	-	11.66 - 15.21
251-300	251-300	SAINT-PETERSBURG UNIVERSITY OF MANAGEMENT TECHNOLOGIES AND ECONOMICS (UMTE)	RU	-	-	97.22	-	-	-	-	-	-	-	11.66 - 15.21
251-300	241-250	SAKARYA UNIVERSITY	TR	-	-	-	12.46	64.35	5.56	-	14.64	35.18	50.44	11.66 - 15.21
251-300	251-300	SAMARA POLYTECH (SAMARA STATE TECHNICAL UNIVERSITY)	RU	-	-	20.68	13.35	10.48	-	60.78	9.75	-	-	11.66 - 15.21
251-300	251-300	SILESIA UNIVERSITY IN OPAVA	CZ	-	-	16.06	24.19	20.12	51.87	3.15	-	18.23	14.31	11.66 - 15.21
251-300	251-300	SOUTHWEST STATE UNIVERSITY	RU	-	-	-	24.42	-	14.73	98.88	32.22	-	-	11.66 - 15.21
251-300	251-300	SULEYMAN DEMIREL UNIVERSITY	TR	-	-	-	27.87	62.47	6.45	-	-	39.07	43.83	11.66 - 15.21
251-300	251-300	TAMBOV STATE TECHNICAL UNIVERSITY	RU	-	-	18.76	12.51	-	-	97.16	78.61	-	18.18	11.66 - 15.21
251-300	301-350	TASHKENT INSTITUTE OF IRRIGATION AND MELIORATION	UZ	20.28	24.20	12.72	-	-	-	-	10.37	-	-	11.66 - 15.21
251-300	251-300	THE NATIONAL UNIVERSITY OF OSTROH ACADEMY	UA	-	12.99	82.78	-	-	30.28	-	-	-	-	11.66 - 15.21
251-300	251-300	UFA STATE AVIATION TECHNICAL UNIVERSITY (USATU)	RU	-	-	50.58	-	16.90	-	-	-	15.76	-	11.66 - 15.21
251-300	301-350	UFA STATE PETROLEUM TECHNOLOGICAL UNIVERSITY	RU	-	-	34.32	-	-	5.72	91.60	32.83	-	-	11.66 - 15.21
251-300	251-300	UKRAINIAN NATIONAL FORESTRY UNIVERSITY	UA	-	-	93.82	-	9.74	5.37	-	-	-	-	11.66 - 15.21
251-300	231-240	ULYANOVSK STATE UNIVERSITY	RU	-	-	100.00	-	9.87	-	-	-	8.43	-	11.66 - 15.21
251-300	251-300	UNIVERSITY OF AGRONOMIC SCIENCES AND VETERINARY MEDICINE OF BUCHAREST	RO	-	-	-	16.70	28.44	-	92.61	-	-	-	11.66 - 15.21
251-300	231-240	UNIVERSITY OF KAPOSVÁR	HU	-	-	82.93	-	24.61	-	3.79	23.25	-	-	11.66 - 15.21
251-300	251-300	UNIVERSITY OF MOSTAR	BA	-	-	15.96	-	9.29	99.57	-	79.00	-	-	11.66 - 15.21
251-300	221-230	UNIVERSITY OF NYÍREGYHÁZA	HU	-	-	71.96	-	-	-	2.82	-	-	25.05	11.66 - 15.21
251-300	231-240	UZHGOROD NATIONAL UNIVERSITY	UA	-	-	62.17	-	8.74	-	23.75	53.66	15.41	19.06	11.66 - 15.21
251-300	301-350	YAROSLAVL STATE UNIVERSITY	RU	-	-	-	29.57	-	-	69.36	-	10.32	-	11.66 - 15.21
251-300	251-300	YEREVAN STATE UNIVERSITY OF ARCHITECTURE AND CONSTRUCTION	AM	-	-	90.79	-	-	7.04	-	20.06	-	-	11.66 - 15.21
251-300	251-300	YURI GAGARIN STATE TECHNICAL UNIVERSITY OF SARATOV	RU	-	-	-	20.65	-	-	100.00	-	19.14	-	11.66 - 15.21

2021	2020	Institution Name	Country/Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
301-350	301-350	"VASILE GOLDIȘ" WESTERN UNIVERSITY OF ARAD	RO	-	-	32.42	-	26.40	-	-	-	-	-	9.05 - 11.59
301-350	251-300	ADNAN MENDERES ÜNİVERSİTESİ	TR	-	-	-	16.76	39.18	-	-	-	25.48	33.19	9.05 - 11.59
301-350	301-350	AFYON KOCATEPE ÜNİVERSİTESİ	TR	-	-	-	19.80	53.56	9.06	-	-	9.98	31.28	9.05 - 11.59
301-350	301-350	AZERBAIJAN DIPLOMATIC ACADEMY	AZ	-	10.41	-	-	-	88.38	-	12.38	-	-	9.05 - 11.59
301-350	301-350	BALIKESİR ÜNİVERSİTESİ	TR	-	-	-	23.89	60.47	6.82	-	-	13.56	24.75	9.05 - 11.59
301-350	301-350	BASHKIR STATE UNIVERSITY	RU	-	-	23.09	14.57	-	-	-	10.30	9.17	19.19	9.05 - 11.59
301-350	251-300	CELAL BAYAR ÜNİVERSİTESİ	TR	-	-	-	22.96	85.98	4.59	-	-	26.47	-	9.05 - 11.59
301-350	251-300	CUMHURİYET ÜNİVERSİTESİ	TR	-	-	-	20.82	47.00	4.80	-	-	21.78	31.25	9.05 - 11.59
301-350	251-300	DUMLUPINAR ÜNİVERSİTESİ	TR	-	-	-	21.57	97.08	5.45	-	-	10.87	17.01	9.05 - 11.59
301-350	251-300	ESZTERHÁZY KÁROLY UNIVERSITY, EGER	HU	-	-	47.29	-	16.83	-	3.58	13.89	-	-	9.05 - 11.59
301-350	301-350	GAZIANTEP UNIVERSITY	TR	-	-	-	13.93	72.99	8.43	-	44.30	13.35	35.80	9.05 - 11.59
301-350	251-300	I. I. POLZUNOV ALTAI STATE TECHNICAL UNIVERSITY	RU	-	-	18.03	-	-	-	63.25	22.95	-	14.17	9.05 - 11.59
301-350	251-300	İNÖNÜ ÜNİVERSİTESİ	TR	-	-	-	27.17	43.04	11.80	-	-	23.41	36.62	9.05 - 11.59
301-350	251-300	IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY	RU	-	-	30.02	10.42	-	6.22	22.27	28.93	-	-	9.05 - 11.59
301-350	251-300	ISIK ÜNİVERSİTESİ	TR	-	-	-	32.66	57.12	41.61	-	-	-	13.46	9.05 - 11.59
301-350	251-300	İSTANBUL TİCARET ÜNİVERSİTESİ	TR	-	13.24	-	13.59	13.83	17.50	14.70	33.67	-	-	9.05 - 11.59
301-350	301-350	IVANO FRANKIVSK NATIONAL TECHNICAL UNIVERSITY OF OIL AND GAS	UA	-	-	53.51	-	-	-	11.91	12.40	-	-	9.05 - 11.59
301-350	301-350	IVANOVO STATE POWER ENGINEERING UNIVERSITY NAMED AFTER V.I. LENIN	RU	-	-	66.27	-	-	-	-	-	-	-	9.05 - 11.59
301-350	251-300	KADIR HAS ÜNİVERSİTESİ	TR	-	-	-	18.79	45.02	43.62	3.28	10.01	9.07	23.09	9.05 - 11.59
301-350	301-350	KÁROLI GÁSPÁR UNIVERSITY OF THE REFORMED CHURCH BUDAPEST	HU	-	16.97	17.29	-	-	-	22.26	15.56	-	-	9.05 - 11.59
301-350	301-350	KAZAKH STATE WOMEN'S TEACHER TRAINING UNIVERSITY	KZ	-	-	30.99	-	-	6.80	-	-	-	-	9.05 - 11.59
301-350	301-350	KIEV NATIONAL LINGUISTICS UNIVERSITY	UA	-	10.25	33.80	-	-	-	-	22.13	-	-	9.05 - 11.59
301-350	301-350	KREMENCHUK MYKHAILO OSTROHRADSKYI NATIONAL UNIVERSITY	UA	-	-	66.55	-	-	21.15	6.19	-	-	-	9.05 - 11.59
301-350	301-350	KYIV NATIONAL UNIVERSITY OF TECHNOLOGIES AND DESIGN	UA	-	12.86	-	-	-	-	36.28	22.97	-	-	9.05 - 11.59
301-350	301-350	MOLDOVA STATE UNIVERSITY	MD	-	-	-	-	92.49	-	-	-	8.48	15.80	9.05 - 11.59
301-350	251-300	MOSCOW POLYTECHNIC UNIVERSITY	RU	-	-	17.57	-	-	-	41.44	70.09	-	-	9.05 - 11.59
301-350	251-300	NAMIK KEMAL UNIVERSITY	TR	-	-	-	25.05	61.64	4.72	-	-	16.55	19.67	9.05 - 11.59
301-350	251-300	NATIONAL MINING UNIVERSITY	UA	-	-	37.67	10.05	-	4.45	-	-	-	18.82	9.05 - 11.59
301-350	301-350	NORTH-KAZAKHSTAN STATE UNIVERSITY NAMED AFTER M. KOZYBAYEV	KZ	16.57	13.41	12.51	-	-	8.19	-	-	-	-	9.05 - 11.59
301-350	301-350	OREL STATE UNIVERSITY	RU	-	-	16.73	-	-	-	81.54	32.63	-	-	9.05 - 11.59
301-350	251-300	PETERSBURG STATE TRANSPORT UNIVERSITY	RU	-	-	-	67.19	-	-	8.20	48.73	-	-	9.05 - 11.59
301-350	301-350	PLATOV SOUTH RUSSIAN STATE POLYTECHNIC UNIVERSITY	RU	-	-	40.45	11.97	-	-	35.03	24.26	-	-	9.05 - 11.59
301-350	301-350	RUSSIAN STATE HYDROMETEOROLOGICAL UNIVERSITY	RU	-	-	-	23.71	15.95	11.83	41.41	32.85	-	-	9.05 - 11.59
301-350	301-350	SAINT-PETERSBURG STATE UNIVERSITY OF AEROSPACE INSTRUMENTATION (SUAI)	RU	-	-	-	12.78	-	4.38	82.18	25.64	-	-	9.05 - 11.59
301-350	301-350	SAMARA STATE UNIVERSITY OF ECONOMICS	RU	-	-	31.92	-	-	100.00	-	11.61	-	-	9.05 - 11.59
301-350	301-350	SEMEY STATE UNIVERSITY NAMED AFTER SHAKARIM	KZ	13.47	15.09	12.83	-	-	-	-	-	-	-	9.05 - 11.59
301-350	251-300	SIBERIAN STATE AEROSPACE UNIVERSITY	RU	-	-	-	14.59	-	10.13	68.44	11.84	13.62	-	9.05 - 11.59
301-350	301-350	STATE UNIVERSITY OF MANAGEMENT	RU	-	-	58.92	-	9.39	-	-	16.76	-	-	9.05 - 11.59
301-350	301-350	THE URAL STATE UNIVERSITY OF ECONOMICS	RU	-	-	13.66	-	20.37	-	36.60	22.98	-	-	9.05 - 11.59
301-350	301-350	TVER STATE TECHNICAL UNIVERSITY (TSTU)	RU	-	-	55.51	-	10.16	-	-	18.60	-	-	9.05 - 11.59
301-350	301-350	UDMURT STATE UNIVERSITY	RU	-	-	25.40	-	-	-	52.90	10.24	-	13.56	9.05 - 11.59
301-350	301-350	UNIVERSITY OF ARCHITECTURE, CIVIL ENGINEERING AND GEODESY	BG	-	-	50.54	-	8.60	-	-	23.24	-	-	9.05 - 11.59
301-350	301-350	UNIVERSITY OF BANJA LUKA	BA	-	-	-	-	30.22	-	-	-	19.12	-	9.05 - 11.59
301-350	251-300	UNIVERSITY OF DUBROVNIK	HR	-	-	25.43	19.90	26.81	-	-	-	-	-	9.05 - 11.59
301-350	251-300	UNIVERSITY OF PRISHTINA	CS-KM	-	-	-	-	20.98	31.22	22.13	-	38.30	19.62	9.05 - 11.59
301-350	301-350	UNIVERSITY OF ZADAR	HR	-	-	-	26.76	-	-	-	-	-	18.84	9.05 - 11.59
301-350	301-350	VINNYTSYA NATIONAL TECHNICAL UNIVERSITY	UA	-	10.47	16.94	14.22	15.12	-	-	-	-	12.07	9.05 - 11.59
301-350	251-300	VOLGOGRAD STATE TECHNICAL UNIVERSITY	RU	-	-	-	23.97	-	-	53.12	31.90	-	16.01	9.05 - 11.59
301-350	301-350	WESTERN UKRAINIAN NATIONAL UNIVERSITY	UA	-	-	-	-	-	-	80.30	-	-	62.24	9.05 - 11.59
301-350	251-300	YILDIRIM BEYAZIT ÜNİVERSİTESİ	TR	-	-	-	20.50	29.82	22.41	-	-	16.08	-	9.05 - 11.59

QS HIGHER EDUCATION REPORT FEATURING THE 2021 EMERGING EUROPE & CENTRAL ASIA RANKINGS

2021	2020	Institution Name	Country/Territory	Academic Reputation	Employer Reputation	Faculty Student	Papers per Faculty	Citations per Paper	International Faculty	Staff with PhD	International Students	International Research Network	Web Impact	Overall
351-400		AGRICULTURAL UNIVERSITY OF TIRANA	AL	-	-	-	-	64.17	-	-	-	13.03	-	-
351-400		ALEKSANDË MOISIU UNIVERSITY OF DURRËS	AL	-	-	-	-	-	-	-	-	17.22	32.78	-
351-400		ASTRAKHAN STATE UNIVERSITY	RU	-	-	-	-	-	-	-	28.34	-	-	-
351-400	301-350	AZERBAIJAN ARCHITECTURE AND CONSTRUCTION UNIVERSITY	AZ	-	-	13.36	-	-	-	-	19.37	-	-	-
351-400		AZERBAIJAN STATE OIL AND INDUSTRY UNIVERSITY	AZ	-	-	31.32	-	-	-	-	10.57	8.05	-	-
351-400		BAKU ENGINEERING UNIVERSITY	AZ	-	-	-	-	-	-	48.22	-	-	-	-
351-400	301-350	BELGOROD STATE TECHNOLOGICAL UNIVERSITY NAMED AFTER V.G.SHOUKHOV	RU	-	-	-	10.66	-	12.38	29.73	51.39	-	18.85	-
351-400		DAGESTAN STATE UNIVERSITY	RU	-	-	-	-	-	-	-	-	9.72	-	-
351-400		EPOKA UNIVERSITY	AL	-	-	-	14.24	-	100.00	3.71	-	-	-	-
351-400	301-350	EUROPEAN UNIVERSITY, NORTH MACEDONIA	MK	-	-	-	-	-	36.06	8.74	96.57	-	-	-
351-400	301-350	ISTANBUL KÜLTÜR UNIVERSİTESİ	TR	-	-	-	-	33.84	-	-	-	-	14.34	-
351-400		K.ZHUBANOV AKTOBE REGIONAL STATE UNIVERSITY	KZ	-	-	-	-	-	77.86	-	36.01	-	-	-
351-400	301-350	KALASHNIKOV IZHEVSK STATE TECHNICAL UNIVERSITY	RU	-	-	20.45	-	-	-	30.99	-	-	-	-
351-400		KALININGRAD STATE TECHNICAL UNIVERSITY	RU	-	-	29.88	-	-	-	-	-	-	-	-
351-400		KEMEROVO STATE UNIVERSITY	RU	-	-	-	-	-	-	-	19.94	-	-	-
351-400	301-350	KUBAN STATE UNIVERSITY	RU	-	-	-	-	16.33	-	-	-	9.51	-	-
351-400	301-350	MOSCOW CITY UNIVERSITY	RU	-	-	-	-	-	7.28	13.91	-	-	-	-
351-400		MOSCOW FINANCIAL AND INDUSTRIAL UNIVERSITY "SYNERGY"	RU	-	-	-	-	-	28.25	-	76.22	-	-	-
351-400	301-350	MOSCOW STATE UNIVERSITY OF RAILWAY ENGINEERING (MIIT)	RU	-	-	28.07	-	-	-	-	27.09	-	-	-
351-400		NATIONAL UNIVERSITY OF UZBEKISTAN	UZ	-	-	-	-	14.30	24.66	16.37	-	13.56	-	-
351-400		ORENBURG STATE UNIVERSITY	RU	-	-	-	-	-	-	-	-	-	23.90	-
351-400	251-300	OVIDIUS UNIVERSITY OF CONSTANTA	RO	-	-	-	-	-	-	2.73	24.40	10.73	-	-
351-400		POLYTECHNIC UNIVERSITY OF TIRANA	AL	-	-	-	-	13.36	-	-	-	16.10	-	-
351-400		PYATIGORSK STATE UNIVERSITY	RU	-	-	15.82	-	-	5.97	75.13	-	-	-	-
351-400	301-350	ROSTOV STATE UNIVERSITY OF ECONOMICS	RU	-	-	-	-	22.28	-	93.26	-	-	-	-
351-400		RUSSIAN NEW UNIVERSITY	RU	-	-	12.46	-	-	11.07	11.35	29.51	-	-	-
351-400	301-350	SAINT PETERSBURG STATE UNIVERSITY OF ARCHITECTURE AND CIVIL ENGINEERING (SPBGASU)	RU	-	-	-	-	9.15	-	9.60	31.43	-	-	-
351-400		SAMARKAND STATE UNIVERSITY	UZ	-	-	51.88	-	-	26.00	-	-	-	-	-
351-400	301-350	SIAULIAI UNIVERSITY	LT	-	-	18.55	-	10.94	-	-	-	-	23.43	-
351-400		SULEYMAN DEMIREL UNIVERSITY, KAZAKHSTAN	KZ	-	-	-	10.13	-	10.05	-	11.20	-	-	-
351-400	301-350	TARAZ STATE UNIVERSITY NAMED AFTER M.KH. DULATY	KZ	-	11.52	-	-	-	-	-	-	-	-	-
351-400		TASHKENT STATE TECHNICAL UNIVERSITY	UZ	15.96	-	13.34	-	-	-	-	-	-	-	-
351-400	301-350	TRANSPORT AND TELECOMMUNICATION INSTITUTE, RIGA	LV	-	10.97	-	12.18	-	-	-	-	-	-	-
351-400		TULA STATE UNIVERSITY	RU	-	-	-	-	-	-	-	11.73	-	-	-
351-400		TURAN UNIVERSITY	KZ	-	-	22.93	-	-	11.78	-	-	-	-	-
351-400	301-350	TYUMEN INDUSTRIAL UNIVERSITY	RU	-	-	-	13.59	8.12	-	27.40	13.70	13.41	-	-
351-400		UNIVERSITY OF ECONOMICS - VARNA	BG	-	10.05	-	-	-	-	-	-	-	-	-
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351-400	301-350	UNIVERSITY OF TIRANA	AL	-	-	-	25.76	9.83	-	-	-	20.08	-	-
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351-400		VARNA FREE UNIVERSITY	BG	-	-	-	-	-	-	-	-	-	-	-
351-400	301-350	VISTULA UNIVERSITY	PL	-	-	-	-	-	17.15	-	100.00	-	-	-
351-400		VLADIMIR STATE UNIVERSITY	RU	-	-	-	12.98	-	-	-	23.15	-	-	-
351-400	301-350	VORONEZH INSTITUTE OF HIGH TECHNOLOGIES	RU	-	-	-	-	-	-	100.00	9.83	-	-	-
351-400		VORONEZH STATE TECHNICAL UNIVERSITY	RU	-	-	20.33	-	-	-	19.51	16.13	-	-	-
351-400	301-350	VORONEZH STATE UNIVERSITY OF ENGINEERING TECHNOLOGIES	RU	-	-	16.90	-	-	-	68.45	18.95	-	-	-
351-400		VYATKA STATE UNIVERSITY	RU	-	-	21.02	11.31	-	-	57.19	-	-	-	-
351-400	301-350	YAROSLAV-THE-WISE NOVGOROD STATE UNIVERSITY	RU	-	-	33.64	-	-	-	-	18.02	-	-	-
351-400		ZHANGIR KHAN WEST KAZAKHSTAN AGRARIAN-TECHNICAL UNIVERSITY	KZ	-	-	-	-	-	32.32	-	-	-	-	-

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## World-Class Research Competitiveness

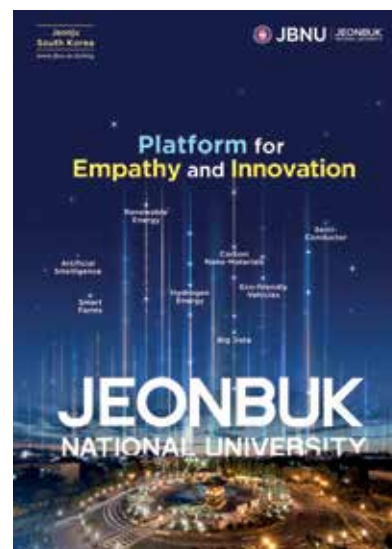
With financial support from the Korean government, JBNU recently established a “Solar Energy-AI Fusion Engineering” graduate program that will train more than 100 integrated researchers over the next five years. JBNU is also recognized for its research and innovation in fields as diverse as renewable and hydrogen energy development, smart agricultural technology, carbon nanomaterial engineering, semiconductor development, Big Data analytics, and finance.

## The Source of University Competitiveness; A World-Class Research Infrastructure

As a result of JBNU's research innovation leadership, the University has been selected as one of 21 institutions to receive government funding as part of its BK21 FOUR initiative. JBNU's research infrastructure and highly qualified pool of students and faculty have attracted proposals for joint research and technology transfer, and the attention of both developed and developing countries.

The Research Center for the Application of High Temperature Plasma has invested 40 billion Won in a 2.4 MW class plasma generator capable of recreating the extreme conditions experienced by spacecraft during reentry.

JBNU's Research Institute for Human-Animal Common Infectious Diseases, Asia's largest zoonotic pathogen research institution, is equipped with an Animal Biosafety Level 3 Research Facility



that permits groundbreaking research on high-risk pathogens such as MERS. This year alone, the Institute spent 1.7 million US\$ on research, including the investigation of potential COVID-19 vaccines, the development of preventive vaccines for human brucellosis, and exploring new integrated solutions to the problems of novel viral infections.

## Competitiveness Recognized by University Ranking

Supported by its history of scientific achievement, JBNU aspires to be the equal of other top universities from around the world. Prominent university evaluators including QS, Reuters, and THE recognize JBNU's competitiveness, as local governments, companies, universities and research institutes gather in Jeonbuk to advance research, expand knowledge, and develop the technologies of the future.



# Looking Outward

THE CHANGING DYNAMICS OF INTERNATIONALIZATION IN THE BALTIC

By Leigh Kamolins,  
Head of Evaluation, QS





Since the first QS Emerging Europe and Central Asia (EECA) Rankings in 2014, we have seen universities across the region etch out strengthened positions for themselves in the global higher education landscape.

While this has been true across the region, there have been pronounced changes in the Baltic countries of Estonia, Latvia and Lithuania in recent years. In each, there has been greater engagement in the international student space, and increasingly outward looking approaches to research.

Global internationalization trends in the sector have been well documented over recent years. In 2000, there were around 2 million international students enrolled in education programs around the world. According to UNESCO figures this number rose to over 5.3 million by 2017, with half of those students being enrolled in the Australia, France, Germany, Russia, United Kingdom and United States.

It is not only these larger international student markets that have seen growth. This trend started to pour out to less-well established study destinations.

In 2014, the student body of an Estonian institution comprised of 5 percent of international students on average.



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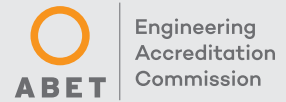
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In Latvia it was 7 percent, and only 3 percent in Lithuania. For our 2021 edition of the ranking, this has moved to 14 percent for both Estonia and Lithuania, and 17 percent for Latvia. This represents a more than doubling of the proportion of international students on campus over the period.

Much of this shift was focused in the last 5 years. In Estonia and Latvia, the number of international students on campus doubled.

In all three countries, meanwhile, there are greater proportions of international students in each institution on average compared with the average across the EECA region as a whole. In the case of Latvia, international numbers are almost twice the regional average.

So what may be behind this growth? While a greater diversity of countries getting actively involved in international student markets may well be a global trend,

there also seems to be some interesting local drivers which may have contributed to this dynamic.

All three Baltic countries have seen acute demographic changes in recent years.

Since 2000, their population have declined. Latvia's population shrunk by around 17 percent, Lithuania's by 23 percent, and Estonia's by 7 percent. This demographic shift has been most acutely felt among youth populations.







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MSUmalaysia





Within the 20-24 year old age bracket, population is 41 percent smaller in Estonia, 42 percent smaller in Lithuania and 56 percent smaller in Latvia than it was in 20 years ago. There a number of factors that have contributed to this: both a general European trend towards aging populations, and a substantial immigration of youth populations who have sought opportunity abroad.

The impact of these changes on those countries has been profound. In each of the three, significant government attention has been given to reinvigorating education and employment markets to stem the tide. Education policy has also specifically tilt towards “the international” in the higher education sector to respond to these challenges.

But, it is not only the dynamics of the international student space where we have seen strong examples of internationalization. Institutions across the Baltic have also been building strong research partners from around the world.

The *International Research Network Index* which forms part of the ranking measures the diversity of international research partnerships.

The QS approach utilizes a technique from the Environmental Sciences known as the Margalef Index. Typically used to measure biodiversity, its approach has been adapted to the rankings context to demonstrate the richness of research partnerships.

The measure looks not only at the number of research partners, but also the locations in which they are located. The measure also ensures they are strong partnerships – with institutions needing to demonstrate collaboration on at least 3 papers in a particular faculty area over the five year period evaluated.

Since previous edition of the QS ranking a year ago, the number of international research partners for universities in the Baltic countries increased substantially.



On average there was a 10 percent increase in partnerships, and Baltic universities had the most productive partnerships with countries such as Germany, United Kingdom, United States, Sweden, Finland, Italy and Russia. There are some real stand-out examples.

The institution second ranked university in this year's QS EECA Rankings, the University of Tartu in Estonia, increased partners in the Life Sciences by 14 percent. This achievement saw it record 417 international partner universities from 57 countries over the five-year period evaluated.

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In Lithuania, Vilnius University saw similar success. Despite being the region's oldest university, it showed that it remains an important player in global education. In Natural Sciences fields, it boasts 253 international partners from 49 countries over the evaluation period.

In recent years there have been numerous narratives that have emerged framing Estonia, Latvia and Lithuania as emerging tech hubs of Europe.

This emergence is perhaps most visible in Estonia where Tallinn has at times been referred to as the emerging Silicon Valley of Europe. A recent ranking by online publication *eu-startups.com* placed Tallinn at 12th position among the leading cities in Europe for start-up activity, a significant achievement given the relative size compared with cities such as London, Berlin and Amsterdam.

Many of these narratives talk about the strength of the higher education sector in

each country supporting this type of ecosystem.

Despite these supposed tech-credentials, universities from the Baltic countries do not perform particularly well in the Web Impact indicator of the ranking. There is one noticeable exception, University of Tartu who ranks seventh in this indicator. Of the 16 institutions ranked in the Baltic, 12 are ranked outside of the top 100, however.

When we look deeper within the QS ranking, there are some hints to support the tech hub paradigm. In the Employer Reputation component, we ask employers around the world to nominate the universities they feel produce the best graduates. By overseas employers only, Estonia and Lithuania lead the EECA region in reputation nominations. This suggests graduates are seen as leaving their higher education well prepared for the workforce, hinting at them being strong countries in which to establish a business.



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GO

TOGETHER



The relative strength of the higher education system in each is also pointed to when we look at the number of institutions ranked.

Estonia, Latvia and Lithuania have the third, fourth and fifth highest number of ranked institutions per one million of population in the EECA region, showing perhaps a disproportionate strength relative to each country's size. Only Cyprus and Northern Macedonia surpass them.

It has been interesting to watch how the performance of institutions has developed across the region since the first edition of the QS EECA Ranking back in 2014.

The international dynamics of universities in Estonia, Latvia and Lithuania look very different than they did back then.

Institutions from all three countries have been on a rapid internationalization trajectory which appears to be fueled by a unique mix of challenges posed by demographic shift, dynamic employment markets



as well as a more general international outlook by policy makers within each of the countries.

With the impending challenges faced by the sector as we emerge from the COVID-19

crisis, it will be interesting to see to what extent this drive towards internationalization continues and whether it remains aligned with the local needs of each of these countries.





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# Machine Learning

REDUCING WITHDRAWAL RATES AT UNIVERSITIES

By Jordan Lemley,  
Project Manager, QS Enrolment Solutions

In the new age of COVID-19 limiting travel and thus revenue from international students, it has become incredibly important for institutions to ensure they retain the students who are already enrolled. Attrition is a persistent problem in the Higher Education sector. In Australia, the 2018 Undergraduate attrition rate was 17.9 percent according to Australian government data representing approximately US\$1 billion in lost revenue every year based on average yearly tuition fees.

Australian universities saw 55,000 Undergraduate students withdraw in 2018 representing about US\$24 million in lost revenue per university on average.

Given the size and scope of the issue, universities have myriad programs and services to help students; whether orientation programs, Student Success teams, Peer Assisted Study Sessions or specialized services to meet various needs like mental health.

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### Proactive 1:1 Support Helps

Proactive support to students during their studies at university can help improve retention rates (for example, “Ahead of the curve: a proactive approach to supporting student retention in a shifting academic landscape”, Lefroy, Wheeler, et al. published at *STARS 2016*) This has lead universities and service providers to develop a variety of Student Engagement and Retention programs to help provide proactive outreach to students throughout the semester.

### Challenge

However, despite having identified the need to be able to proactively reach out to students, there are usually resource constraints like time, budget or staffing that can limit the scope of such outreach services to certain high-risk cohorts.

### Case Study

QS Enrolment Solutions (QSES) looked through our historical data providing Student Engagement and Retention

outreach services and realized we had the opportunity to use Machine Learning capabilities to enhance our ability to prioritize outreach based on many combinations of factors whether demographic, behavioral or data collected through our service.

We ran some initial experiments to see if the data seemed like it had predictive power and found it was able to accurately categorize historical students who dropped out. The next step was to test if the model worked in the real world.

### Typical Year

In a typical year, calls are prioritize based on certain demographic data known to be at high-risk for attrition and students are contacted to provide referrals as appropriate to eniversity support services. There are well known factors influencing including likelihood to withdraw, such as distance from campus, being a mature-age student, and being first-in-family to attend university.



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It is typical to prioritize contacting students for proactive outreach by targeting campaigns for students from these types of at-risk demographics.

## 2020

This year, instead of focusing on broad categories of demographics, QSES used machine learning algorithms to create prediction scores to assess the likelihood of a cohort of one of our partner institutions to drop out based on historical data.

Our hypothesis was it was not just a single category of factors influencing attrition, but rather a combination of weighted factors. For example, perhaps students from a lower socio-economic area are more likely to withdraw, but not if they are enrolled in a STEM course and lived close to campus.

The idea is that this interplay of factors would more accurately assess likelihood than a single factor on its own.

One of the advantages of machine learning methodologies is they identify likely influential factors and more importantly, combinations of factors by running millions of possible scenarios to identify the most likely factors to contribute to an outcome, all in an instant. This lends itself to quickly being able to identify the propensity of a student to withdraw based on historical data.

In addition to looking at historical demographic data, we also identified ongoing metrics to track across the semester like disengagement with the Learning Management System (LMS) or number of opens and clicks on email broadcasts to help update the model with new factors that might indicate a likelihood to withdraw.

## Implementation

Before the semester began, we ran student demographic profiles against our predictive model, generating a prediction score.

We then tagged student profiles most likely to drop out (top 1,720 of 7,602 students) and prioritized outreach calls to those students first. We then updated the tagging throughout the semester based on newly collected data like email click rates, feedback from students via calls.

## Results

When we analyzed the results after Semester 1, 2020, the students we tagged and prioritized were analyzed on how accurate the model was at predicting outcomes (likelihood to withdraw) as well as the influence of the contact.





### First Finding

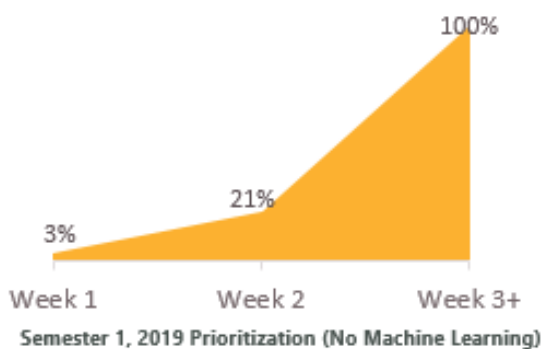
Students identified as likely to withdraw ended up not enrolling the following semester at a higher rate than the low likelihood group. The High Propensity group withdraw at a higher rate as compared to the Low Propensity group and compared to our control group, resulting in a 13.9 percent withdrawal rate corresponding to overall withdrawal rate).

The first finding indicated a difference between the groups.

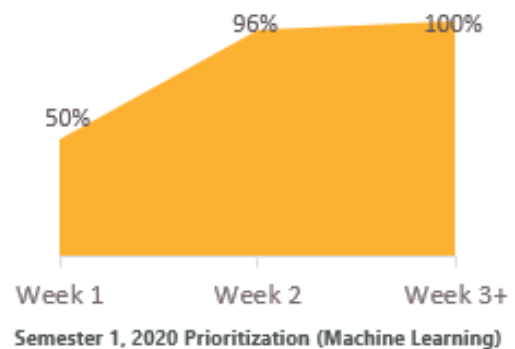
### Second Finding

The second finding was that compared to previous years, we were able to more quickly prioritize and contact students based on their likelihood or withdrawing. Using 2019 data, students were identified based on how they would have been categorized as most likely to drop out and how quickly

we were able to contact them. High-risk students in the prioritized list were more quickly contacted within the first few weeks of the semester. This is important in building the sense of belonging and quickly connecting the at-risk students with the appropriate resources.



Within the first 10 days of the campaign first calls had been made to 21% of the High Likelihood to Withdraw group, where a phone number was available (when machine learning is retrospectively applied)



Within the first 10 days of the campaign first calls had been made to 96% of the High Likelihood to Withdraw group, where a phone number was available

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## ENGINEERING COURSES

- AERONAUTICAL
- AUTOMOBILE
- BIOMEDICAL
- BIOTECHNOLOGY
- CHEMICAL
- CIVIL
- INFORMATION TECHNOLOGY
- COMPUTER SCIENCE
- COMPUTER SCIENCE IN ARTIFICIAL INTELLIGENCE
- COMPUTER SCIENCE IN IOT
- COMPUTER SCIENCE IN DATA SCIENCE
- ELECTRONICS AND COMMUNICATION
- ELECTRICAL AND ELECTRONICS
- ELECTRONICS AND INSTRUMENTATION
- MECHATRONICS
- MECHANICAL
- ARCHITECTURE
- INTERIOR DESIGN

## ARTS AND SCIENCE

- B.B.A
- B.Com
- B.A - ENGLISH
- B.Sc. - VISUAL COMMUNICATION
- B.Sc - PHYSICS
- B.Sc - CHEMISTRY
- B.S - MATHEMATICS
- B.Sc - COMPUTER SCIENCE
- B.Sc - COMPUTER SCIENCE IN ARTIFICIAL INTELLIGENCE
- B.Sc. - PSYCHOLOGY
- B.Sc. - FASHION DESIGN
- B.Sc. - BIOCHEMISTRY
- B.Sc. - BIOTECHNOLOGY
- B.Sc. - BIO-INFORMATICS AND DATA SCIENCE
- B.Sc - MICROBIOLOGY
- M.A. - ENGLISH
- M.Sc - PHYSICS
- M.Sc - MATHEMATICS
- M.Sc - VISUAL COMMUNICATION
- M.Sc. - CHEMISTRY
- M.Sc. - BIO-INFORMATICS AND DATA SCIENCE
- M.Sc. - MEDICAL BIOTECHNOLOGY AND CLINICAL RESEARCH

## LAW

- L.L.B • B.A. LL.B. (HONS)
- B.COM.LL.B (HONS.) • B.B.A.LL.B (HONS.)

## PHARMACY

- B. PHARMACY ( 4 YEARS)
- D. PHARMACY ( 2 YEARS)

## NURSING

- B.SC NURSING

## B.D.S / M.D.S

NEET - 2020 Qualified Candidates apply on [www.mcc.nic.in](http://www.mcc.nic.in)

## Ph.D (Full/Part Time)

Applications are invited

## ALLIED HEALTH SCIENCES

- B.SC. CLINICAL NUTRICIAN AND DIETICIAN
- B.SC. MEDICAL LABORATORY TECHNOLOGY

## PG Courses

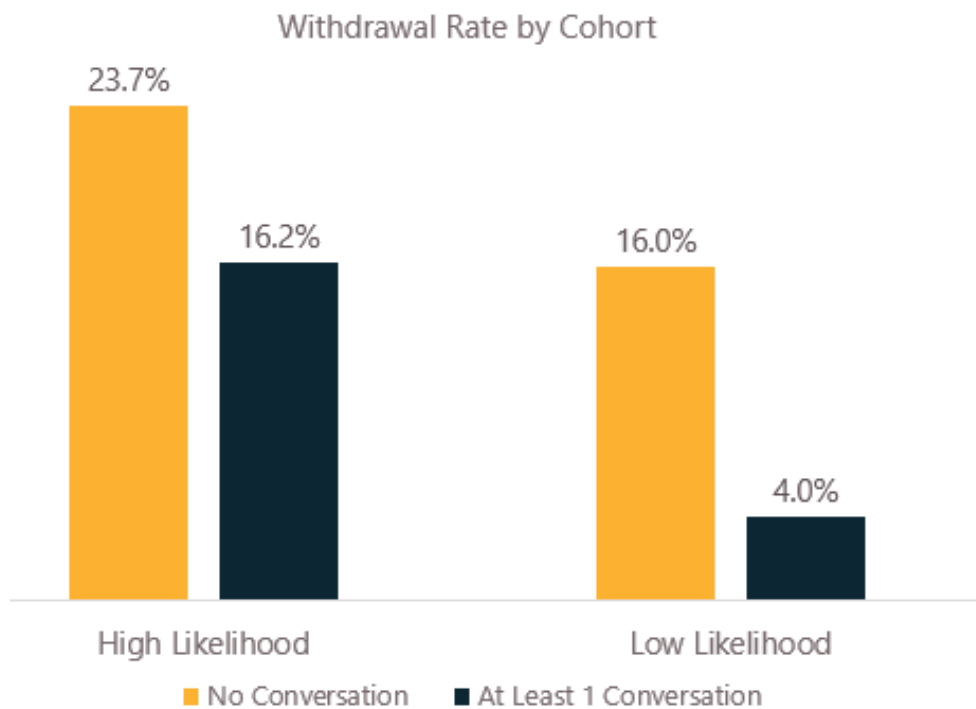
- M.B.A
- APPLIED ELECTRONICS
- POWER ELECTRONICS & INDUSTRIAL DRIVES
- EMBEDDED SYSTEMS & IOT
- COMPUTER SCIENCE AND ENGINEERING
- COMPUTER AIDED DESIGN
- STRUCTURAL ENGINEERING
- MEDICAL INSTRUMENTATION
- BIOTECHNOLOGY
- BIOPHARMACEUTICAL TECHNOLOGY
- BUILDING MANAGEMENT
- SUSTAINABLE ARCHITECTURE

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**99401 68007**



**Third Finding**


The third finding was that there seemed to be an impact on students when the Student Success advisor was able to have a conversation, check-in and refer a student to university resources as appropriate.

Interestingly, the impact of proactive outreach, conversation and referral was most significant for the low likelihood group. While unexpected, the result could indicate that actually there

are more significant barriers faced by the high-likelihood group that cannot necessarily be solved by a conversation or a referral to appropriate university resources, such as financial difficulty, family or personal health issues, etc. Whereas a connection with the university through a conversation and/or a connection to appropriate resources for a low-likelihood student is enough to help keep students engaged who otherwise wouldn't be.

**Conclusion**

In summary, there were three main findings from deploying machine learning capabilities to enhance and optimize outreach to at-risk students. Machine learning enabled quicker, more accurate categorizations of students' propensity to withdraw. At-risk students were connected earlier in the semester, and, finally, the effect on retention is more pronounced for the low-risk students.



**A leading global higher education advisory that works with universities, organizations, think tanks and government in pursuit of educational excellence**



### Data Solutions

Our analyses identify institutional strengths, gaps and opportunities individually and comparatively at national, regional and global levels. Based on these findings, we develop a comprehensive set of strategic recommendations to ensure robust standards and potentially an improved rankings performance.



### Frameworks

Based on client targets and directives, we create bespoke systems of assessment and performance for institutional restructuring, benchmarking or road mapping towards further growth and development.



### Global Engagement

We take a hands-on approach to advice on best, innovative practices for an institution to deepen its internationalization strategies and consequently raise its international profile. These constructive processes have a strong degree of implementation, with the possibility of added strategic support following the engagement.



### Strategic Auditing

In a strategic audit, we evaluate different institutional areas and analyze their contribution to the institution individually and collectively, as well as how they compare against best international standards and practices. This analysis is then compiled to form strategic recommendations.



# WEBSITE & SOCIAL MEDIA AUDIT

## | Why **is this useful?**

Recommendations made throughout the audit will help you enhance your reputation among the wider academic and industry community.

## | What **is it?**

The focus of the Web & Social Media Audit is to determine how effective your institution's online presence is.

An effective website and social media strategy can help you build your institution's profile and reputation among your stakeholders as well as global online visitors.

## | How **does it work?**

The Web & Social Media Audit assess your institution on all of the following key features:

- **User experience** from the perspective of:



Academic community



Industry



Prospective students

- **Benchmarking**
- **Search Engine Optimisation (SEO)**
- **Visibility**
- **Google Analytics**
- **Mobile accessibility**



## **COMMUNICATION STRATEGY**

In addition to the Web & Social Media Audit, we can also audit your existing communication plan or develop a brand new communication strategy to help you enhance your brand even further.

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Version 1

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train, and provide the best  
Learning environment for our students.**



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