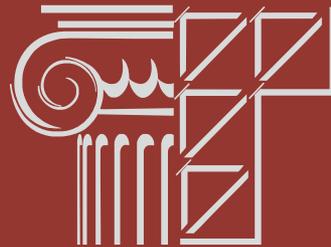


Ministry of Science and Higher Education of Russian Federation
Kazan State University of Architecture and Engineering



KSUA E—moving forward!





Welcome to Kazan State University of
Architecture and Engineering



HISTORY





14.06.1890 – Kazan Industrial College was founded (later renamed as Kazan Technical College in 1917).

21.11.1918 – Kazan College of Industry, Economics and Art branched out of Kazan Technical College.

2.01.1919 – Kazan College of Industry, Economics and Art was renamed as Kazan Technical Institute. The institute had the Department of Architecture and Civil Engineering.







23.05.1930 – the history of our university began, Kazan Institute of Communal Construction was founded.

1.09.1946 – Kazan Institute of Civil Engineers admitted its first post-war enrollees – 113 students. It had the only one department called “Civil Engineering”.

1952 – The institute was handed over to the Ministry of Oil Industry and was renamed as Kazan Institute of Civil Engineers of Oil Industry.

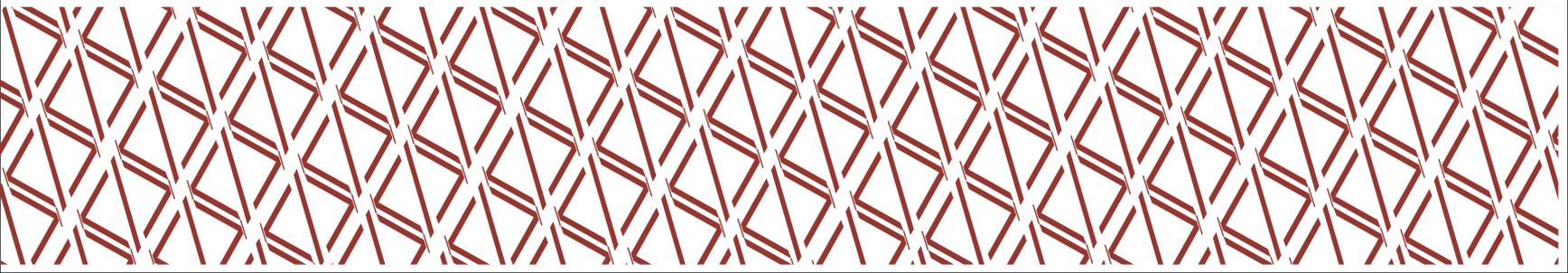
1957 – The institute was handed back to the Ministry of Education and was renamed as Kazan Institute of Civil Engineering.

1995 – It was renamed as Kazan State Academy of Architecture and Engineering.

2005 – Being close to its 75th anniversary, it reaches a higher status and was renamed as Kazan State University of Architecture and Engineering (KSUAE).

2015 – KSUAE celebrated its 85th anniversary and the 125th anniversary of civil engineering education in the Republic of Tatarstan.

2020 – KSUAE will celebrate its 90th anniversary.



KSUA E specifics



Professional training in the field of Architecture and Design is based on the powerful engineering foundation. It allows training the architects practitioners with the engineering base and creative potential.

KSUA E is a federal state educational institution which was established by the Ministry of Science and Higher Education. The University trains specialists in the fields of construction, architecture, road engineering and communal services. In its activity KSUA E relies on the Ministry of Construction, Architecture, Housing and Communal Services, and the Ministry of Transport and Roads of the Republic of Tatarstan.

KSUA E is the real campus including the academic buildings, laboratories (BFFT.space,





СТРОИТЕЛЬ

4
КТАСУ

Prochnost (Strength in Russian), Systems, etc.), research centers, informational and educational studios, students' residences, sports complexes, stadium, refectory; the center of technical education.

Different kinds of field trips are held in the sports and health center of KSUA E on the Mersha river; students and staff of the university also may spend holidays there.

The optimal number of students studying at KSUA E allows meeting the needs of the Republic of Tatarstan and Volga region in highly qualified specialists.





Education



Today our university carries out regular and leading training of personnel for the architectural, construction and highway transportation complexes and housing and communal services. It is based on the work of our academic cluster, which is organized on the basis of KSUA E. Every year more than 5,000 specialists receive higher and second higher education and about 1,500 specialists obtain additional education to work for industry.

The regularity system is characterized by a multistage level and is the guarantor of the "Lifelong learning" concept's implementation.

1) School and preschool level

KSUA E has a well-organized system of pre-university training, which includes specialized schools, the children's architectural and design school, Junior Academy, preparatory courses

2) Intermediate professional level

It is represented by 5 colleges that are the members of our academic cluster. There are 2 resource centers hosted by Kazan Construction College and Kazan College of Construction, Architecture and Municipal Economy.





3) Higher education (bachelor's, master's, specialist's degrees, postgraduate courses)

1.
KSUA E
trains
experts for
the
branches
of archi-
tecture,
construc-
tion and
highway
transporta-
tion, for
housing
and com-
munal
services.

2.
KSUA E is a
university with a 90-year long
history, and this made it possi-
ble to form academic schools.
There are scientists known not
only in Russia , but throughout
the world.

3. KSUA E has good facilities,
which are constantly being



BFFT

BFFT.space BUFFET >>



5. KSUAE has a network of partnership with leading universities throughout the world (Austria, Egypt, Greece, Italy, Korea, UK, Portugal, Sweden, Taiwan, etc.).

The university has students from far-a-broad countries: Afghanistan, Albania, Algeria, Chad, Colombia, Congo, Egypt, Iraq, Morocco, Namibia, Nigeria, Palestine, Turkey, Syria, Serbia, Vietnam, Yemen; neighboring countries

KSUAE is the only university in the Republic of Tatarstan that implements double degree bachelor training programme (together with the University



НАУЧНО-ОБРАЗОВАТЕЛЬНЫЙ ЦЕНТР «ТЕХНОЛОГИИ»

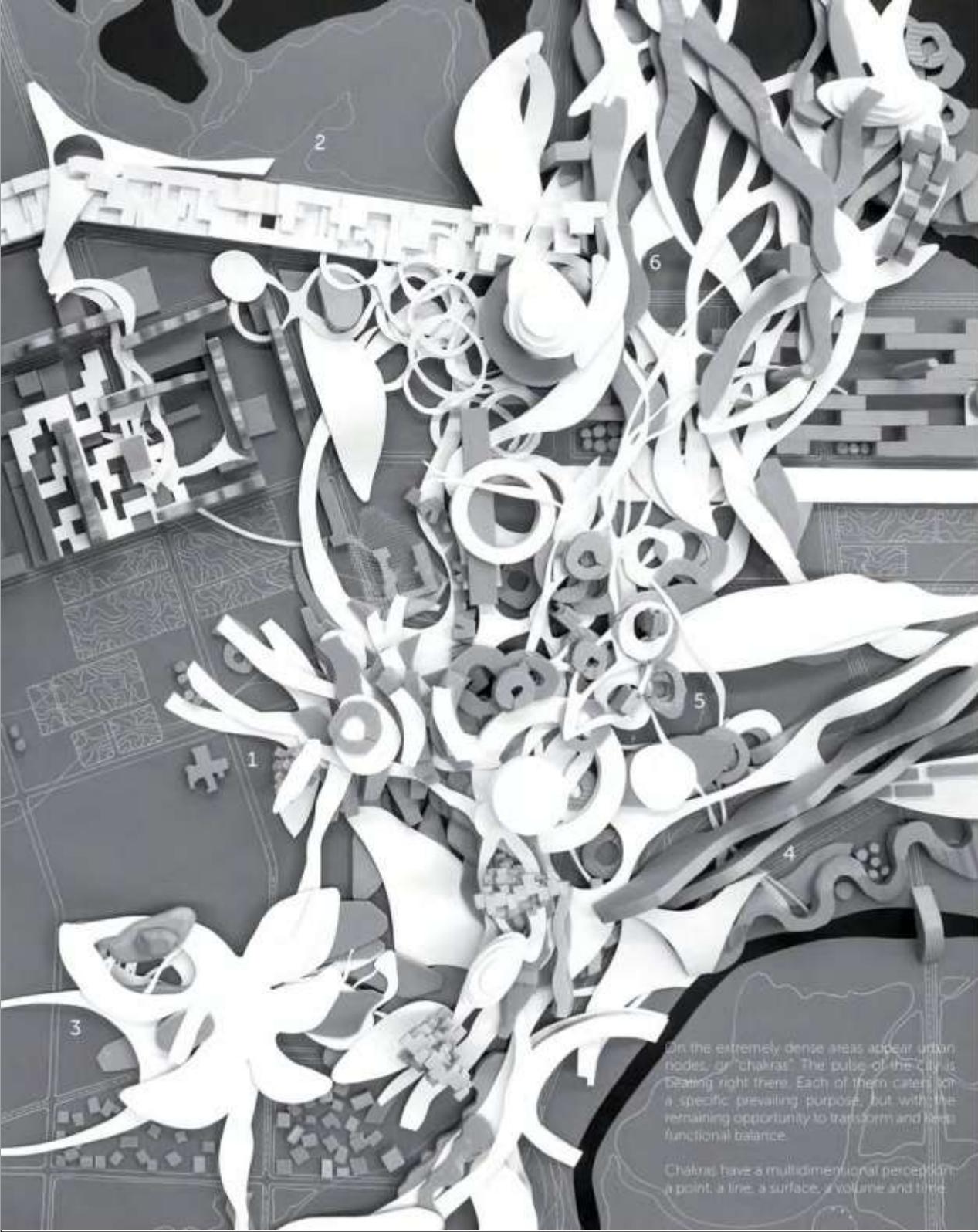


4) Postgraduate education

Retraining and continuing professional development are implemented in 8 majors, 8 continuing professional development programmes for specialists having higher education, 26 short-term continuing professional development programmes.

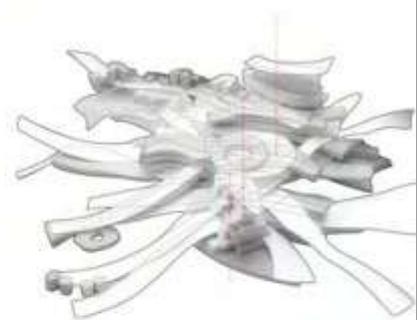
About 2500 specialists attend recertification courses every year.



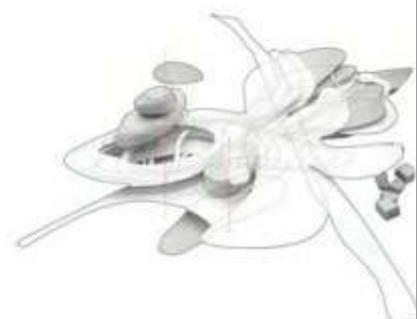


On the extremely dense areas appear urban nodes, or "chakras". The pulse of the City is beating right there. Each of them caters for a specific prevailing purpose, but with the remaining opportunity to transform and keep functional balance.

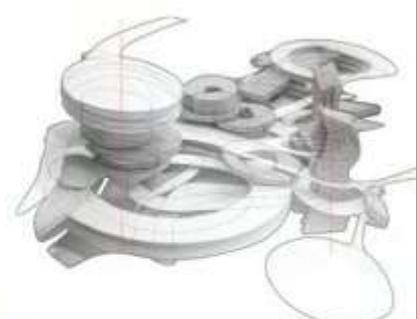
Chakras have a multidimensional perception: a point, a line, a surface, a volume and time.



1 to create

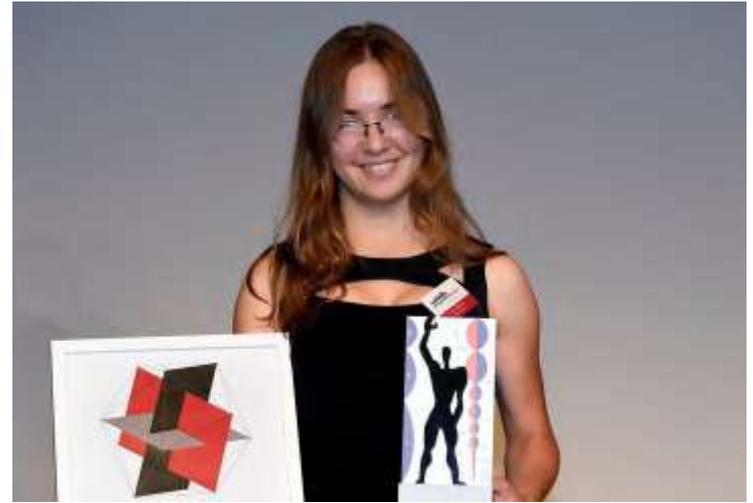


3 to learn



5 to control





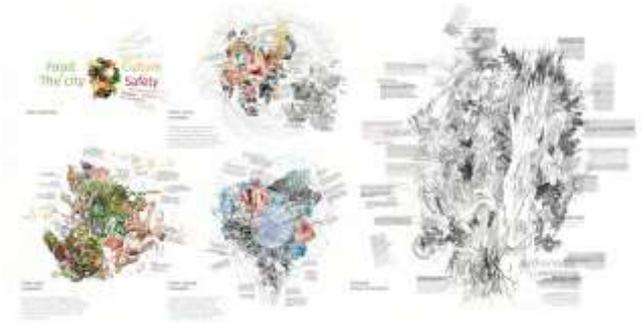
KSUA E provides a high level of training and education activities which is demonstrated by the following achievements:

1. The demand for architects and designers in the leading workshops and designer companies of the world ("Atkins" design, engineering and project management consultancy (England), Erick van Egeraat architectural company (Netherlands), architectural workshop of Barcelona chef architect Josep Acebillo, Bartlett (London) which is one of the best architectural schools of the world, Coop Himmelb(l)au company found by one of the greatest architects Wolf D. Prix, Zaha Hadid architectural workshop, Richard Rogers and Partners, MVRDV company (Netherlands), etc.) – these achievements demonstrate a world-class recognition of our architectural school! Every year 20-30 students of our university do internship at the leading workshops of the world.

2. Victories of students who are taking a course of training in architecture in prestigious world competitions, where such leading foreign universities as Oxford, Harvard, Massachusetts and others take part. These victories are valuable because basically only our University represents Russia in such competitions:

- Mustan Ainur – the winner of the International Architectural Student Competition Archi-World® Academy Awards III (Germany), more than 1,500 participants;

- Anna Andronova – 3rd place in the 5th international competition for sustainable construction projects (Switzerland - France) La fargeHolcim Awards, 1738 participants;







- Silantjeva Alisa – finalist (TOP-23) of the International review-competition of the best projects in architecture, town planning and landscape architecture "Archiprix International 2017" (Netherlands - India), about 380 architectural schools of the world;
- Mannapov Ruslan – 1st place, Sadrieva Alsu – 3rd place, IFA 2017 (International Finsa Award for Students of Architecture & Design, Spain), 139 participants of 79 universities from 37 countries
- Sadrieva Alsu – 1st place in the International architectural competition "Pause" in wooden pavilion for the TED conference (Vancouver, Canada), venue design and building, more than 300 participants
- G abdrakhmanova Ilsiya – 2nd place in the International architectural competition "MODERN COLLECTIVE LIVING CHALLENGE" (China, Singapore), 1000 participants
- Rakhmatullina Alina – 1st place in the competition UIA -Public Health Group. International Student & Young Architect Competition: Smart, Green & Beyond: Health Care Facility of the Future. Organizer: International Union of Architects (UK, China), more than 400 participants
- Anastasiya Maslova – Global winner of the international students competition International VELUX Award 2018 (International Architecture festival, Amsterdam, the Netherlands), Anna Borisova and Kamilla Ahmetova are regional winners
- Irina Chikhireva, Diana Kalimullina, Maria Svetovidova, Daria Nikolaeva – 3rd place in the international students competition UIA HYP-Cup (supported by the International Union of Architects) China. The head of the jury is Patrick Shumaker.
- Airat Zaidullin, Ruslan Mannapov – 1st place (the only among students) in the international competition of innovations in hotel architecture "Radical Innovation Award" 2019 (New-York, the USA)





3. Winning performance of KSUA E students at all-Russian review competitions of graduation theses and olympiads. The total results of olympiads, graduation theses competitions in major "Construction" (pro les Civil and industrial construction, Water supply and sewerage, Heat and gas supply and ventilation, Building materials, products and structures production and application, Hay and bridge construction, Examination and valuation of real estate) in 2019:

1st place – KSUA E – 49 points

2nd place – Tyumen industrial University – 15 points

3rd place – Don State Technical University – 14 points

4th place – Novosibirsk state university of architecture and civil engineering – 12 points

5th place – Moscow state university of civil engineering, Nizhny Novgorod

state university of architecture and civil engineering – 7 points

6th place – Saint-Petersburg state university of architecture and civil engineering; Belgorod state technological university – 6 points

7th place – Tomsk state university of architecture and building – 5 points



Казанский го
архитектурно-строи



КАЗАНСКИЙ АРХИТЕКТУРНО-СТРОИТЕЛЬНЫЙ УНИВЕРСИТЕТ

ГОСУДАРСТВЕННЫЙ -СТРОИТЕЛЬНЫЙ УНИВЕРСИТЕТ

ДЕЛАЕШЬ ПРАВИЛЬНЫЙ ВЫБОР, ЕСЛИ ХОЧЕШЬ УЧИТЬСЯ В КЛАССНОМ, ПРЕСТИЖНОМ
УНИВЕРСИТЕТЕ - КАСУ!!!
ПОЛУЧИШЬ ДИПЛОМ, КОТОРЫЙ
НА ВЫШЕННУЮ, ИНТЕРЕСНУЮ
УНИВЕРСИТЕТ СЕГОДНЯ

НИТСЯ В РОСОИ И ЗА РУБЕЖ
О ЖЕЛТЫИИ
НАШ КАПИТЕС САМЫЙ СЛУ

В НАШЕМ УНИВЕРСИТЕТЕ УСПЕШНО РАБОТАЮТ
И АСПИРАНТЫ И ДОКТОРАНТЫ



4. In the ranking of the admission quality to universities in Russia in 2018, the university is:

- 2nd place among the architectural and construction universities of Russia;
- 3rd place among all universities of the Republic of Tatarstan;
- 66th place out of 326 Russian universities.

5. KSUA E graduate employment in industrial sector is 100%.





OUR EDUCATION AND RESEARCH CENTRES







СИСТЕМЫ

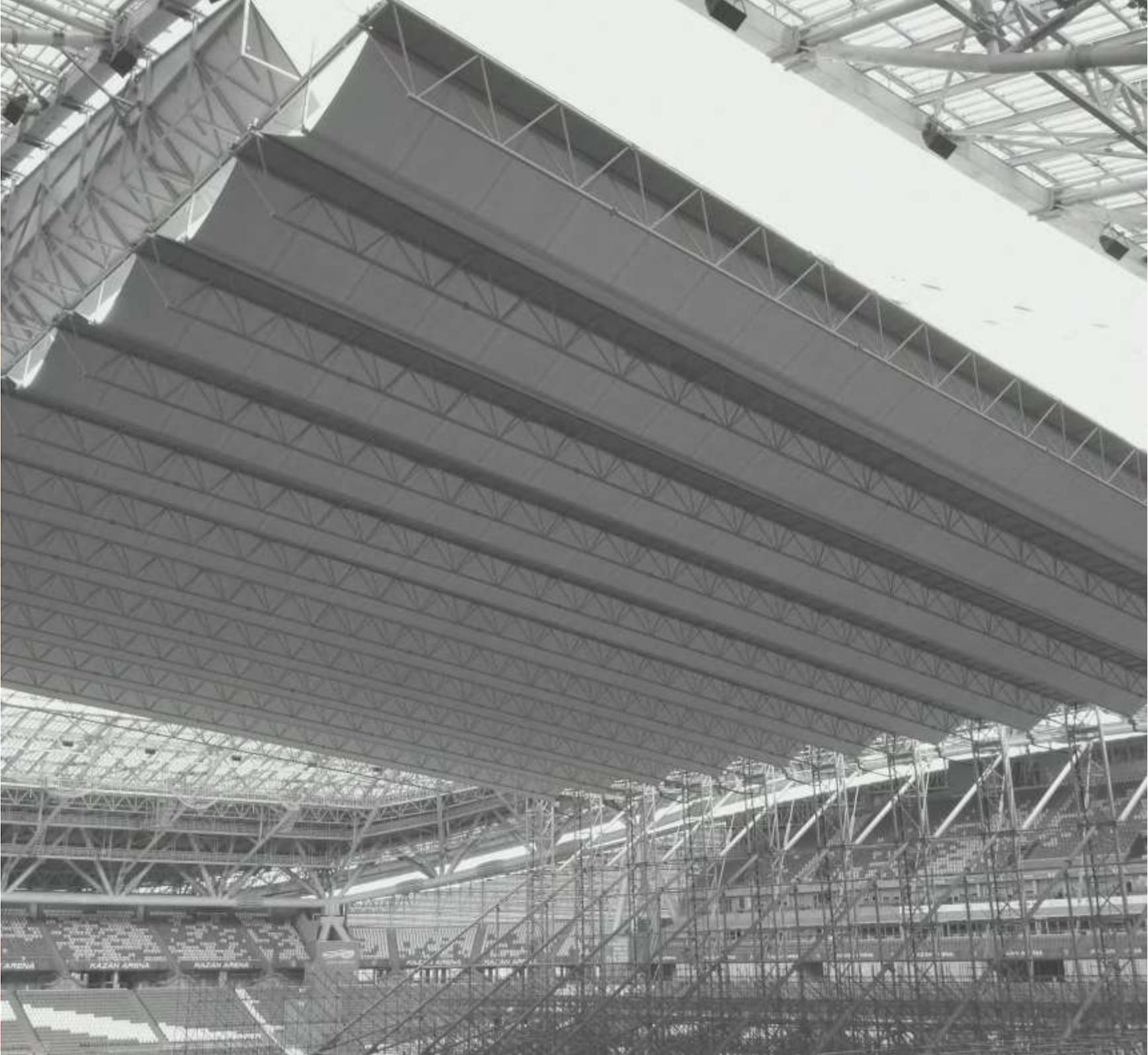












Research and innovative activity



The main trends of research and innovative activities of the KSUA E are:

1. Building structures;
2. Applied geomechanics in construction;
3. Construction materials;
4. Nanotechnology in construction;
5. Architecture, urban planning and design;
6. Engineering systems and ecology in construction and housing and public utilities;
7. Road construction;
8. Economics and business management in construction and housing and utilities infrastructure.



For each of the research and innovative trends we have a clear understanding of the problems which the Republic of Tatarstan faces and ways of solving them. Our ideas are agreed with the Ministry of Construction, Architecture and Housing and Communal Services of the Republic of Tatarstan, and the Ministry of Transport and Road infrastructure of the Republic of Tatarstan.



· **Structural designers and researchers deal with the design and calculation of the most complex structures and systems.**

Among the investigated, calculated, reinforced, and designed projects are:

- temporary grandstands at the Mordovia-Arena stadium with 45,000 seats for the 2018 Football World Cup;
- the foundation base for the Kazan Arena stadium with 45,000 seats;
- temporary roof for the Kazan Arena stadium for the 2015 World Water sports Championships;
- the foundation and enclosing structures of the construction pit under the newly constructed underground annex as a part of the scientific and technical support of the Shamovskaya Hospital unique reconstruction (Kazan);
- the components of buildings and structures from pultruded profile fibreglass profiles produced by Taneft-Presskompozit (Alabuga);
- the steel structures covering of the sports complex "Academy of Tennis" (Kazan);
- the structures of the Orgprodukty plant of the Kazanorgsintez;
- the load-bearing structures of the "Kazan Helicopter Plant";
- the design of terminal 1A of the Kazan International Airport;
- the roof and supporting structures of the Cathedral of the Annunciation of the Kazan Kremlin;
- the structures of the shopping and entertainment centre "MEGA Kazan"
- the project of the bridge over the river Sabinka (Bogatyevsaya) using metal structures dismantled from the "Temporary shelter at the Kazan Arena stadium for the 2015 World Swimming Championships";
- collapsible structures for the Red Bull Air Race (2017-2019) World Championship in Kazan and collapsible structures for the Fan zone of the Fan-fest of FIFA World Cup 2018 on the territory of the Kazan Family Centre in Kazan.





· The most significant research works which are being implemented in the field of study of construction materials are:

- the redesign of reinforced concrete framework of 18-storeyed block of flats in the residential complex "Salavat Kupere" with its replacement for high performance sand concrete M-1000;
- low-water requirement cements manufacturing on the base of "Unistroy" Facility Manager (Kazan);
- reinforced concrete blocks manufacturing for main line tunnels of Kazan Underground on the base of "Kazmetrostroy" company;
- production of high performance heavy weight and fine grain concrete mixtures for highway and aerodrome pavements of "Borisoglebskoe" aerodrome runway (Kazan), Gorbunov Aircraft Manufacturing Plant, Vostochniy aerodrome (Ulyanovsk);
- the application of polymer-composite reinforcement in concrete structures for "Tatneft", at the construction of concrete aerodrome pavements of Kazan international airport, road slabs and culvert pipes.







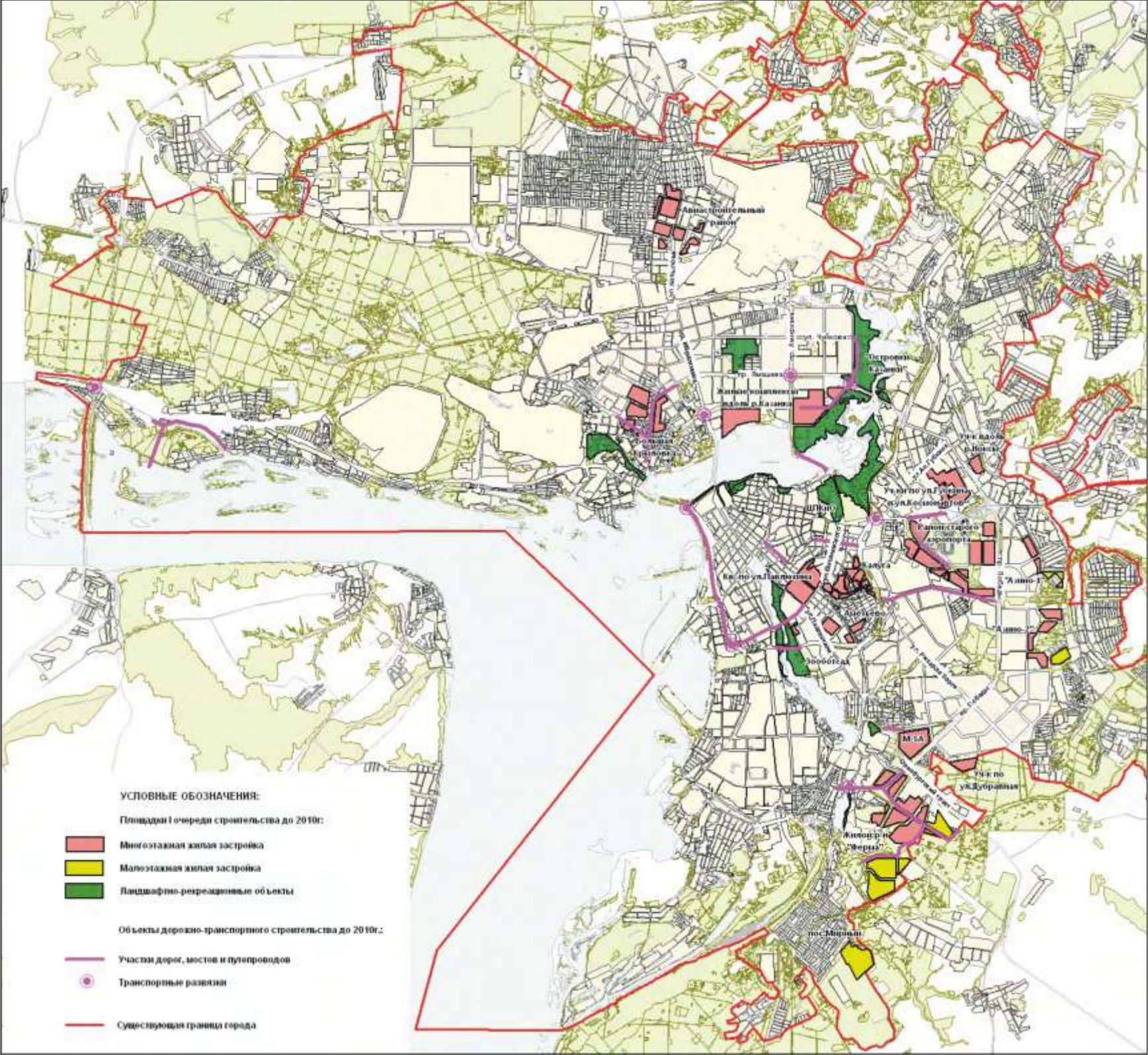
- The following aspects are implemented in the field of road construction:
 - the structures of rural roads using local reinforced soils and processed low strength crushed stone;
 - oil industry wastes recycling technology: recycling of oil sludge while the construction of rural roads;
 - polymer-bituminous binders asphalt concretes;
 - bridge concrete elements structures using pre-stressed polymer-composite reinforcement at construction sites of "Mostovik" company.
- The most significant developing in the field of engineering systems and ecology in construction are:
 - new progressive reagentless systems of water treatment using electro-neutralization method introduced at "Kazan engine building industrial group", Kazan power and heating plant – 1, power and heating plant – 3, Zainsk state district power station, Murmansk power and heating plant;
 - energy-saving small-scale sectioned coil heat-exchangers with spring-winded ducts and "confuser-diffuser" tubes;
 - new technologies of air humidification in ventilation and conditioning systems based of porous fan atomizers, etc.



Unique projects by KSJAE teaching staff in the fields of architecture, urban planning and design are:

- Kul-Sharif Mosque (in collaboration with "Ta tinvestgrazhdanproekt") in Kazan;
- "Korston Club Hotel" in Kazan;
- Ramadan Mosque in Kazan;
- 37-storey residential complex "Lazumye Nebesa" in Kazan;
- "Basket-Hall" Arena in Kazan;
- Baumana Street renovation in Kazan;
- Advent Church reconstruction in Kazan;
- Project designs for ensembles of the Kazan Kremlin, Old-Tatar District, Admiralty District, New-Tatar District, Sviyazhsk, Bulgar Settlement and other historical zones of the Republic of Tatarstan;
- Naberezhnye Chelny general plan development;
- Memorial complexes in Kazan, Almetevsk, Zelenodolsk and others;
- Victory Park in Naberezhnye Chelny;
- A group of buildings of the Main Admiralty in St. Petersburg;
- Menshikov Bastion of the Petropavlovskaya Fortress in St. Petersburg;
- Malakhov Hill in Sevastopol;
- Kremlin Armory in Moscow.





УСЛОВНЫЕ ОБОЗНАЧЕНИЯ:

Площадки и очереди строительства до 2010г:

- Многоэтажная жилая застройка
- Малоэтажная жилая застройка
- Ландшафтно-рекреационные объекты

Объекты дорожно-транспортного строительства до 2010г:

- Участки дорог, мостов и путепроводов
- Транспортные развязки
- Существующая граница города



Стратегическое планирование и управление культурным наследием

Казанский государственный архитектурно-строительный университет
Казань-2014

С. АБДУРОВ
Российский делегат

АНТОНОВА

3. The results of KSUAE scientific and innovative activity:

- Doctoral Committee provides the opportunity to defend PhD thesis on the following programs: 05.23.01 "Building Structures" and 05.23.05 "Building Materials";
- 4 journals are published among which are "Polimery v stroitelstve" (Polymers in Construction), "Gumanitarnye nauki v XXI veke" (Humanities in the XXI century), "Tekhnika i tekhnologiya transporta" (Techniques and technology of transport). The journal "Izvestia KGASU" (News of KSUAE) is in the list of the journals peer-reviewed by State Commission for Academic Degrees and Titles;
- annual amount of contract-based works is about 1 million Euros;
- over 1100 articles are published every year in Journals which have Russian Science Citation Index (elibrary), including 130 published articles in Web of Science and Scopus Journals;
- 10-15 monographs are published annually;
- KSUAE holds up to 10 significant scientific conferences, seminars, workshops with the participation of leading Russian and World researchers.





Student life and sport



Youth policy is a priority area of our University. KSUAE is a big and friendly team of a truly creative, talented and ambitious people, with all the conditions for realization of students' creativity.

The traditional events, such as "Student of the year", "Freshman's day", New year Masquerade ball, "Tatiana Day", "Farewell to winter", "Fatherland Defender day", "Laughter Day", "Students Spring", military-patriotic game "Zamitza (Summer lightning)", activists forum.

Students studying architecture develop upgrading projects of cities, towns, and rural areas under the programme "Yamle II" (Wonderful Country).

Student construction brigade participate in the building of "Vostochniy" cosmodrome, nuclear power plant in China, "The peaceful atom" in Ozersk and many others.

Our students are winners of all-Russian, republican and city forums, contests and programmes.







KSUAE is the most sports-oriented but non-sporting university in the Republic of Tatarstan.

There is an opportunity to do sports for the masters of sports and all the people willing to improve their health in KSUAE.

We rank first in the Games of Tatarstan universities in team scoring in 32 kinds of sport competitions.

The team of the university staff is the Game winner among the Tatarstan universities in team total for eight consecutive years.

The University is the area of high level culture. Students' residences please applicants, students and their parents with the cleanliness, order, interior and comfortable chill-out zones.

We provide with dorm rooms all the students that need accommodation.

There is no place for malediction and smoking in our University.

Parking zones for students, professors and visitors of our University are organized.

The KSUAE refectory offers the great quality of food in Kazan!





The First Vice-Prime Minister of the Russian Federation, Organizing Committee Chairman of the Universiade 2013 I.I. Shvalov, the President of the Republic of Tatarstan M.Sh. Shaimiev, the Prime Minister of the Republic of Tatarstan R.N. Minnikhanov, the Minister of Sport, Tourism and Youth Policy of the Russian Federation V.L. Mutko, the Minister of Education and Science of the Russian Federation A.A. Fursenko, the Mayor of Kazan I.R. Metshin (2009)



The President of the Republic of Tatarstan R.N. Minnikhanov



The Mayor of Kazan I.R. Metshin



The Minister of Construction, Architecture and Housing-Communal Service of the Republic of Tatarstan M.Sh. Khusnullin (2010), currently Deputy Mayor of Moscow in the Moscow Government on urban planning and construction issues.



The Head of the Main Department of State Expertise of the Russian Federation I.E. Manylov, the Head of the Kazan branch of the Main Department of State Expertise F.M. Khanifov



The Chairman of the State Council of the Republic of Tatarstan, the President of Volleyball Federation of the Republic of Tatarstan F.Kh. Mukhame tshin, Chief Federal Inspector in the Republic of Tatarstan R.Z. Timerzyanov, The Chief of Staff of the President of the Republic of Tatarstan A.A. Safarov. Minister of the Interior of the Republic of Tatarstan A.V. Khokhorin.



The Minister of Construction, Architecture and Housing-Communal Service of the Republic of Tatarstan I. E. Fajzullin



The Minister of Transport of the Republic of Tatarstan L. R. Sa n



The deputy prime minister of the Republic of Tatarstan - the Minister of Education and Science R.T. Burganov



The metropolitan bishop of Kazan and Tatarstan Theophan



Ambassador Extraordinary and Plenipotentiary of the Republic of Italy in Russia Mr. Cesare Maria Ragal'ini



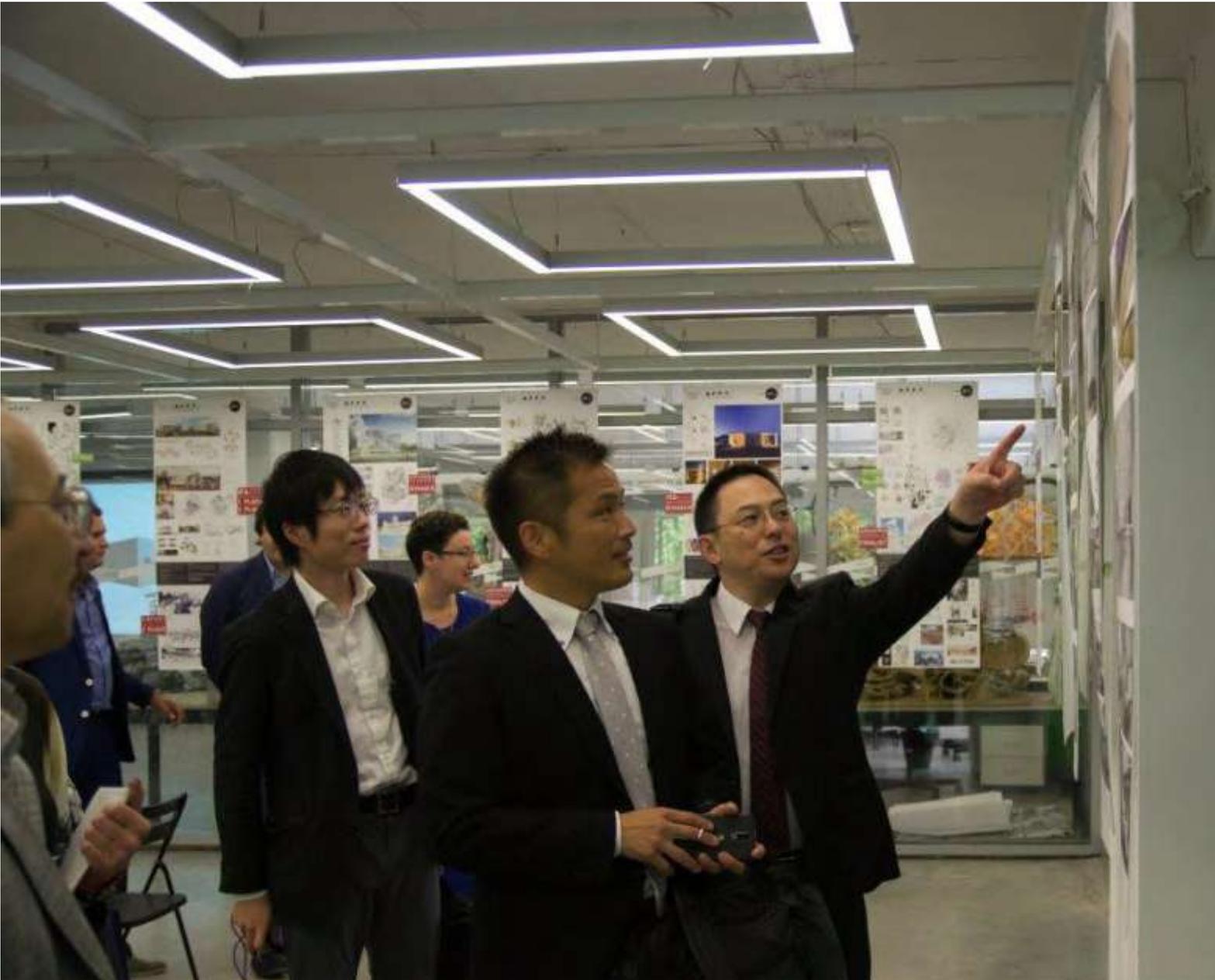
The chief architect of Barcelona Josep Acebillo (Spain), honored professor of KSUAE



The architect known throughout Russia and Europe, the head of workshops SPEECH Neri Oxman, the founder of charitable fund of architectural drawing Tchoban Foundation Museum for Architectural Drawing (Berlin) Sergio Calza



Ed Baker, director of Singapore company Broadway Malyan, city planner, landscape architect



The Tsukuba University Professor, Doctor of Sciences Kunitoshi Hishikawa, member of the board of management of "Iida Sangyo" company (Japan) Okawa Tatsuya



Professor of Democritus University of Thrace (Greece), UNESCO expert (ICOMOS), honored professor of KSUA E A Ikivadis Prepis.



The architect, the co-founder of NaJa & Deostos (London), the assistant professor of the École normale supérieure University Ricardo de Ostos



The chairman of board of directors of Institute for Transportation and Development Policy (New York), the former mayor of Bogotá (Columbia) Enrique Peñalosa



Managing director of AJM Planning and Urban Design Group (Malaysia), the chief architect of the satellite city project "smart city Kazan" Norliza Hashim

KSUA E statistics

Number of students:

- total	7000
- full-time students (BS)	4300
- full-time students (MSc)	1000
- extra-mural students	1700
- foreign students	255
- output of specialists a year	more than 1500

Number of employees:

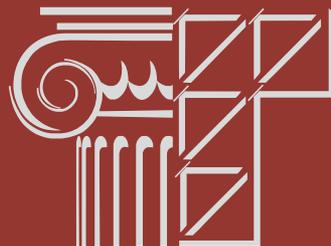
- total	740
- faculty	350
- members of the Academy of Sciences	29
- Ph.D. (Candidates and Doctors of Science)	292

Information service:

- library (books)	544000
- access to scientific and educational networks and the World Wide Web (bps)	100
- e-library	

University Campus:

- total area of premises	77242 sq m
- educational and laboratory buildings	55197 sq m
- students residences (2, 4, 5a, 5b)	for 1500 students
- sports halls	711 sq m
- sports complex "Tezuche (The Builder)"	5173 sq m
- stadium	12000 sq m
- public catering points (refectory for 530 persons, buffet)	4540 sq m
- sports and health camp on the Mersha river	10,6 Ha



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