University of Szeged













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Dear Guests, Dear Readers!

The University of Szeged is widely recognized as a leading actor in the world of science both nationally and internationally. The institution is renowned for its research activities, high-quality education and its commitment to being in tune with scientific developments. In an attempt to give a picture of its diversity, this publication also reveals the key to the success of the institution. As shown in the following pages, balanced development is based on the traditional virtues of hard work and innovative thinking.

Science is the alpha and omega of academic life, and it requires perpetual diligence and a continuous flow of innovative ideas. These concepts form the essential basis of research activities and education, they are fundamental to establishing international relations, and they also render talent management possible. We, the citizens of the University of Szeged, take pride in the fact that due to the results of the scientific activities carried out at the institution, it has become one of the Hungarian Research Universities contributing to progress. The success of the university clearly proves that this well-organized institution is able to meet a wide range of requirements.

Rektor's Welcome It is with pleasure that I present this publication, which introduces the life at the University of Szeged. I also hope this book will be valuable to all its readers in giving insight into the diversity of the university's community. Take a leaf through the pages, and be our guest at the University of Szeged.



Dr. Gábor Szabó Rector of the University of Szeged



Mission Statement

The University of Szeged is renowned for its rich traditions and high prestige among the Hungarian institutions of higher education. The university's mission is to offer high quality education at the levels of Bachelor's, Master's, doctoral (Ph.D), higher-level vocational and postgraduate specialist training programs. The university's internationally acknowledged, competitive research activities are essential parts of its educational mission, and it is particularly important to ensure the institution's position as a research university. Its research and creative activities include basic and applied research, creative arts, product and service development. As one of the largest organizations in the South Great Plain region, the University of Szeged considers the active role it plays in the area's social, economic and cultural development to be part of its social responsibility; and through its charitable activities the institution demonstrates solidarity with the people of the region.



Through these activities, the University of Szeged seeks to achieve the recognition and support of the local community and the general public at the same time.



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1581	_An academia consisting of two faculties, Arts and Theology, was established by István Báthory
1872	_The Hungarian Royal University was established, claiming to be the spiritual successor of Báthory's academia
1881	_The University of Cluj took the name of King Franz Joseph
1921	_Four faculties – the Faculty of Law, the Faculty of Medicine, the Faculty of Arts, Language and History and the Faculty of Mathematics and Science – of the Franz Joseph University of Cluj moved to Szeged
1924 –1930	_The buildings of the clinics and the Faculty of Science located at Dóm Square were opened
1928	_The College of Teacher Training moved to Szeged, which became Gyula Juhász Teacher Training College in 1973
1940	_After the passing of a law, Franz Joseph University was moved back to Cluj and what remained of the institution in Szeged became the Hungarian Royal Miklós Horthy University
1945	_The institution assumed the name University of Szeged
1951	_The Faculty of Medicine seceded from the main institutional body, and started its operation as an independent Medical University
1957	_The independent Faculty of Pharmacy was set up
1962	_Undergraduate training commenced at the Technicum of Food Engineering in Szeged
1962	_The University of Szeged was named after Attila József
1987	_The University of Medicine took the name of Albert Szent-Györgyi
1989	_The Faculty of Health Sciences, once an affiliated department of the institution, was integrated into Albert Szent-Györgyi Medical University
1999	_The independent Faculty of Economics and Business Administration was founded within Attila József University



The current University of Szeged was established as a result of the integration of Albert January 2000 Szent-Györgyi Medical University, Attila József University, Gyula Juhász Teacher Training College, the College of Food Processing and Engineering, the Music Conservatory and the College of Agriculture in Hódmezôvásárhely 2001 Aron Márton Youth Hostel was opened for Hungarian students living beyond the frontier 2003 Following its successful accreditation, the Music Conservatory started functioning as the Faculty of Music December Attila József Study and Information Centre opened, housing the University Library 2004 2005 The Regional Cooperation Research Centre of Life and Material Sciences (DEAK), Szeged Neurobiological Knowledge Centre (DNT) and the Regional University Knowledge Centre for Environmental and Nanotechnology (KNRET) were launched 2006 Following successful accreditation, the University of Szeged implemented the multi-cycle training system of the Bologna Process The Faculty of Dentistry was established January 2007 July The construction of the new Biology Building was completed, the renovated building of 2007 the Faculty of Economics and Business Administration opened 2009 Funded by the Social Infrastructure Operational Programme, the university launched its "Knowledge-Path" project 2009 Funded by the Social Infrastructure Operational Programme, the university launched its "Infrastructure development at Szeged Health Pole" project 2009 The University of Szeged received the Hungarian Higher Education Quality Award 2010 The University of Szeged received the "research university" title 2011 The renovation of the university's central building was completed 2011 The construction of the new building of the Faculty of Engineering was completed





Research University

- the results of research, development and innovation at the University of Szeged



The University of Szeged received the Higher Education Quality Prize in 2009. The prize was founded in 2006 for which only the most excellent higher education institutions strive thus its merit implies the appreciation of the University and its applied quality assessment system.

In order to enhance its competitiveness in research, the University of Szeged gives its full support to inter - and multidisciplinary research groups. Furthermore, to make use of its knowledge assets much more effectively, the institution mediates between research groups and industrial agents by relying on its national and international relations; and by launching spin-off businesses, it attempts to trigger the utilization of knowledge.

Research and Knowledge Centres at the University of Szeged	Duration of operation	Target areas	Value created by scientific research (HUF thousand)
The Regional Cooperation Research Center of Life and Material Sciences	2004–2009	medical imaging, cosmetology bioremediation-bioconversion, waste recycling	722,000
Szeged Neurobiological Knowledge Center	2004–2009	treatment of degenerative prote- in aggregation diseases; treatment methods of neurological diseases and neuroendocrine disorders; pathomechanisms of neurodegenerative diseases; functional genomic and proteomic examination of psychiatric disorders, validating target proteins; early detection of disorders affecting the nervous system	1,700,000
The Regional University Knowledge Center of Environmental and Nanotechnology	2005–2010	environmental technology, nanotechnology, biotechnology, health care, informatics	722,000
DEAK Plc	2009–	medical science, industrial biotechnology, nanotechnology, agricultural science, social science	2,000,000
The Centre of Excellence of the University of Szeged	2010–	laser physics, chemistry, materials science, pharmaceutical research, molecular biology, genetics, medical science, environmental science, energetics, mathematics, informatics, humanities, law, economics	3,006,664

Clusters are networks of co-operating individual companies and organizations – generally market competitors – that are motivated by similar long-term interests and the positive effects of their shared activities in cost reduction and efficiency improvement.

The University of Szeged participates in the operation of 23 clusters. Activities in these clusters cover the main fields of study of the university, so the institution can provide all of its departments with suitable business opportunities.

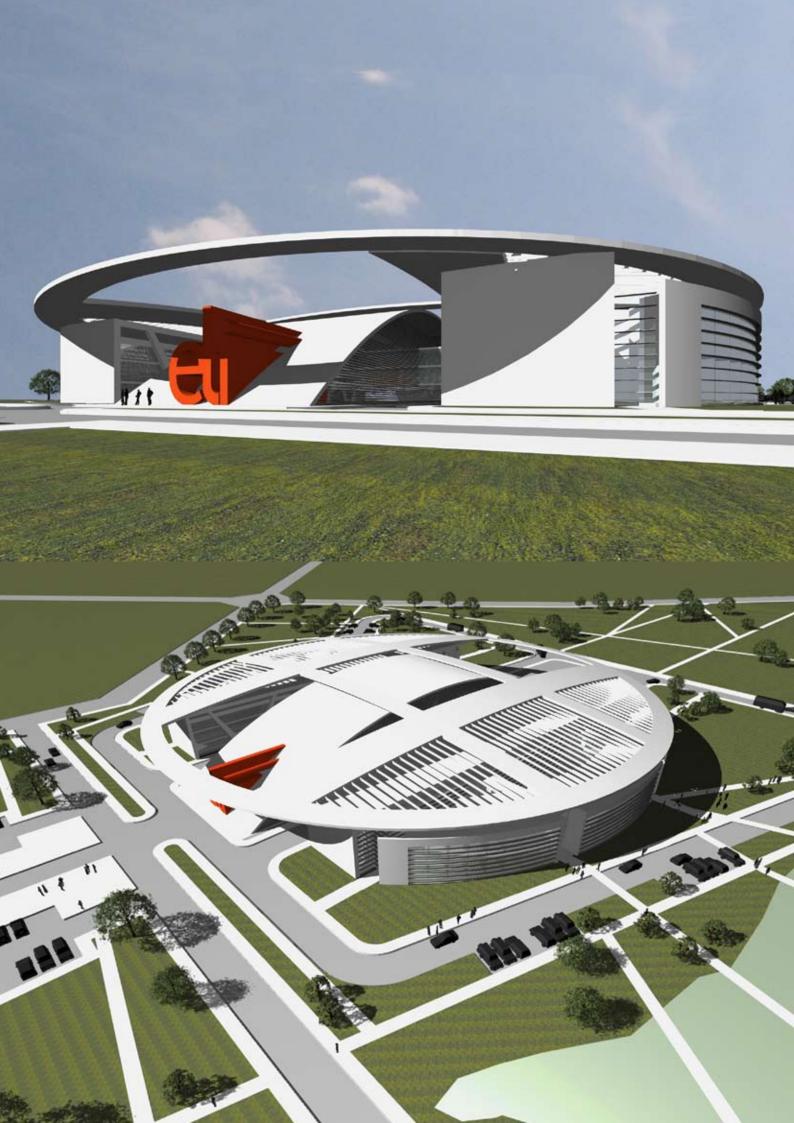
Clusters established by the contribution of the university:

- 3P Cluster for Plastics, Packaging, Printing Industry,
- ArchEnerg Regional Renewable Energy and Construction Industry Cluster,
- South Great Plain Biomass Utilization Cluster,
- Goodwill Biotechnology Cluster,
- Havaria Environment and Health Technology Cluster,
- PharmacoFood Cluster,
- Software Innovation Pole Cluster,
- Alliance Cluster,
- PharmAgora Life Quality Cluster,
- South Great Plain Transport-development Cluster (DAKK),
- South Great Plain Thermal Energy Cluster (DATEK),
- South Great Plain Thermal Cluster,
- South Great Plain Green Engineering Technology-development Cluster,
- Biotechnology and Pharmacology Innovation Cluster (BioPhrama),
- ECOSTEP Innovation for Sustainability Cluster,
- · Construction Industry Research, Innovation and Technology-Transfer Cluster,
- Hungaromed Health and Tourism Cluster,
- Lightweight Construction Cluster,
- Hungarian Clinical Study Cluster,
- South Hungarian Innovation Consultancy Cluster (DITAK),
- First Hungarian Security and Defence Cluster,
- South Great Plain Sustainable Development Cluster (DAFESZK),
- South Great Plain Biotechnology Innovation Cluster (DABIK)

Spin-off businesses are technology intensive firms seceding from higher education institutions which are formed by using the intellectual results of the research headquarters i. e. they "spin off" their home institutions. Their research activities cover areas such as laser physics, software industry, the methods of biogas production, the utilisation of geothermal energy and medical applications.

In 2011 the university's spin-off businesses are the following:

- CE Optics Ltd
- First Hungarian Biogas Ltd
- Hilase Ltd
- InnoGeo Ltd
- Nanocolltech Ltd
- Tonosoft Medical-Technical and R&D Ltd
- Traumart Ltd
- Megenerg Ltd



ELI IN SZEGED

ELI (Extreme Light Infrastructure), the first high power laser facility, based on the most intense lasers, fully dedicated to users, is being built through international co-operation at three various sites, but under single management and research strategy. The **Attosecond Light Pulse Source in Szeged** will provide opportunities for researchers to examine the duration of elementary processes, while ELI Beamlines Facility in Prague will focus on providing ultra-short energetic particle and radiation beams, and the last ELI pillar in Magurele, near Bucharest, will be designed to deal with laser-based nuclear physics. The location of the fourth and the highest intensity pillar, the laser power that will reach 200 PW, mainly focusing on nonlinear quantum electrodynamics and astrophysics will be decided after 2012.

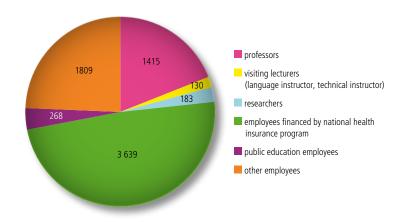
Extreme Light Infrastructure - the super laser

December 2015: construction due for completion total cost of the project over EUR 244 million – 85% financed by EU Structural Funds 150 – 200 employees dedicated to scientific and technical work facilities for approximately 1000 scientists a year 60-hectare Science Park

The main mission of the Attosecond Light Pulse Source, the laser institution in Szeged, is to facilitate taking snap-shots in the attosecond and femtosecond (10^{-15} s $- 10^{-18}$ s) scale of the electron dynamics in atoms, molecules, plasmas and biological samples. Medical diagnostic procedures and particle beam-based treatment are also among the applications that make use of this technology. These technologies use laser light or the so-called secondary light sources emitted by plasma generated in gas or solid target objects.

When Szeged was chosen for one of the sites to locate an ELI laser facility, the decision also indicated the recognition of the outstanding results of the school founded by local physicists, and it was also an acknowledgement of the high quality standards of research in natural sciences conducted in Szeged.

Distribution of university staff at the University of Szeged (October 2010; number of persons)



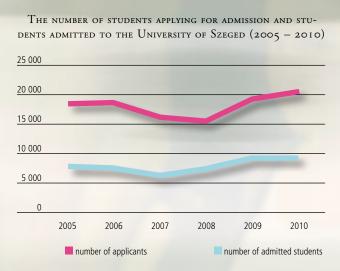


An innovative university

– education at the University of Szeged



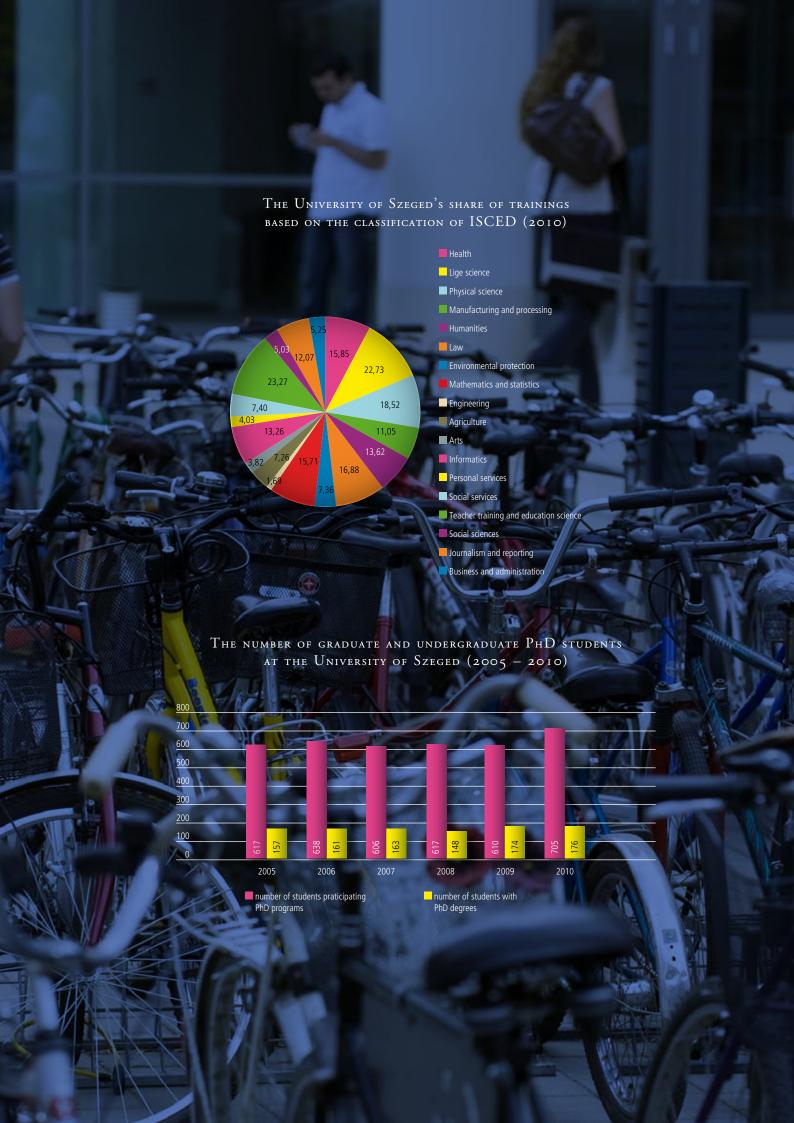
The University of Szeged is committed to providing high quality and modern education in each and every training program, based on the results of current scientific research. With regard to the high number of applicants, it is clear that the university retains its prestigious position among other tertiary education institutions in Hungary, and it offers deep, quality knowledge and recognized degrees for over 27, 000 students.



FACULTIES OF THE UNIVERSITY OF SZEGED

The Faculty of Agriculture
The Faculty of Arts
The Faculty of Dentistry
The Faculty of Economics
and Business Administration
The Faculty of Engineering
The Faculty of Health Sciences
and Social Studies

The Faculty of Law and Political Sciences
The Faculty of Medicine
The Faculty of Music
The Faculty of Pharmacy
The Faculty of Science and Informatics
The Gyula Juhász Faculty of Education



The University of Szeged offers a wide range of educational programs, such as Bachelor's, Master's, PhD, as well as postgraduate specialist training programs. Seeing the scientific potential of the institution it is no wonder that in the absolute institutional list compiled according the students' and teachers' excellence, the University of Szeged is amongst the most successful Hungarian colleges and universities.

The Doctoral Schools of the University of Szeged offer entry for the best students into the scientific life and provide immersed knowledge in the chosen field of science. The PhD certificates are worldwide excellent references by means of the highly recognised courses of the highest standard which are held by renowned scientists, amongst which members of the Academy are to be found.

Doctoral schools of the University of Szeged

Humanities	The Doctoral School of Pharmaceutical Sciences		
The Doctoral School of History	The Doctoral School of Theoretical Medicine		
The Doctoral School in Linguistics	Social sciences		
The Doctoral School of Literary Studies	The Doctoral School of Economics		
The Graduate School of Educational Sciences	The Doctoral School of Law and Political Sciences		
The Graduate School of Philosophy	Natural Sciences		
Engineering	The Doctoral School of Biology		
The Doctoral School of Informatics	The Doctoral School of Chemistry		
Medicine	The Doctoral School of Environmental Sciences		
The Doctoral School of Clinical Medicine	The Doctoral School of Geosciences		
The Doctoral School of Interdisciplinary Sciences	The Doctoral School of Mathematics		
The Doctoral School of Multidisciplinary	and Computer Science		
Medicine	The Doctoral School of Physics		

The institution's 19 doctoral schools, covering almost every area of science taught at the university, are open to young researchers.

The University of Szeged is also being transformed into a unique e-universitas. Due to the implementation of infocommunication developments, electronic systems, library e-services, on-line courses and computer-based exams are all an integral part of higher education in Szeged. University students enjoy the benefits of the virtual university, as their administrative tasks have become simpler and a lot faster; they only have to click on the appropriate option in front of their computers. The popularity of the usage of electronic systems indicates that the students and the teachers not only accepted the help provided but they also use the possibilities implied in them.





At home all over the world

– international relations
of the University of Szeged

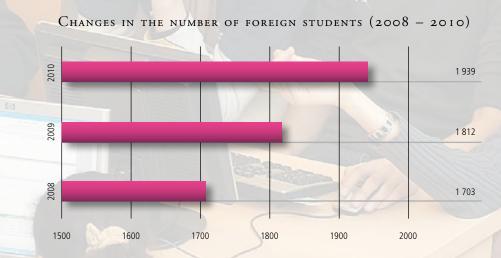
The University of Szeged has a widespread network of relations throughout the world. Due to its extended foreign relations, the institution also serves as an international meeting point; as it is annually chosen by nearly 2,000 students from other countries.

Since 1985, foreign language programs have been available for those who seek high quality education. The number of foreign students, who can choose from programs at three different levels (BA/BSc, MA/MSc, PhD), has risen by 20 % during the previous years. As a result of the widening spectrum of its programs, the University of Szeged attracts more and more foreign students from a wide range of countries throughout the world; in 2010 students came to the institution from 39 different countries.

Foreign language programs at the University of Szeged

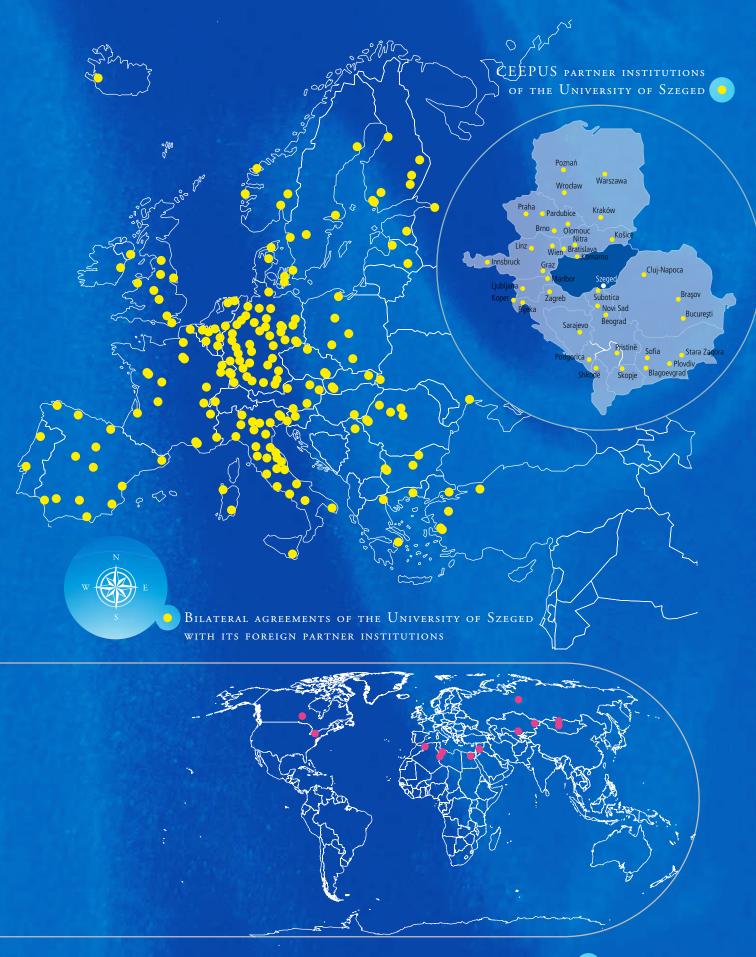
English Language Medical Program
English Language Dentistry Program
English Language Pharmaceutical Program
French Law Program
French Language European Law Master Training Program
American Legal Expert's Training
German Legal Expert's Training
Foreign Language Programs in Linguistics
Foreign Language Specialization in the Field of Music
Training Programs of Doctoral Schools

For more information, see: www.u-szeged.huleduprogrammes



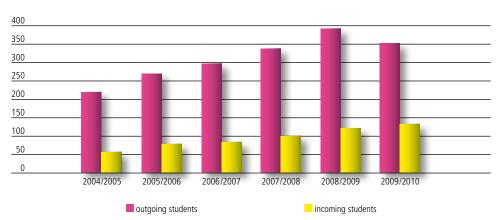
The University of Szeged lays special emphasis on student mobility, by participating in mobility projects, during which the institution's own mobility funds are also allocated. The University of Szeged is proud to be considered as the best network university in the countryside due to the high number and quality of international scholarships available at the institution.

171-184



- international scholarships cover each study field available at the university
- 699 bilateral agreements in the ERASMUS program: 30 countries, 266 cities, 380 partner institutions
- 8618 months of scholarship per year in the ERASMUS programme
- 2591 students participating in the ERASMUS programme since 1998
- 14 countries, 39 partner institutions in the CEEPUS programme
- European Quality Label for student and teaching staff mobility in 2006
- Equal Education Socrates Prize for the implementation and organization of mobility in 2007
- listed among the top ten universities of Europe in the brochure ERASMUS Success Stories in 2008 and 2010
- CEEPUS Minister's Prize of Excellence in 2010
- International Cooperation Quality Award 2011





The prizes and awards received by the University of Szeged indicate that the institution deserves international acknowledgement for its promotion of student and teacher mobility. There are two outstanding prizes among these rewards given to the university, namely the International Cooperation Quality Award received in 2011 and the European Quality Label in 2006.

In the international ranking of universities, the University of Szeged has a prestigious position. Based on the number of scholarly publications, the proportion of citations, the student - instructor ratio, and the proportion of international students and instructors, the University of Szeged has a high position in the QS World University Ranking conducted by Quacquarelli Symonds. The institution holds the overall ranking position of 451-500, while in the rankings by subject, in the category of chemistry, it holds the ranking position of 151-200.

Luise Poser (Germany)

"I do not only attend a remarkable university, but Szeged is like a second home to me."

Katie Ivanova (Bulgaria)

"The best thing that happened to me here is that I have a great number of new friends, both Hungarian and foreign ones – and the parties are unforgettable, of course."

Salar Zeinali (Iran)

"This wonderful city has everything I need for my studies. The library is superb, and the community of teachers and students is wonderful, too."



4.

Home on the banks

of the River Tisza

– student life at the University of Szeged

The University of Szeged is the scientific and cultural centre of the South Great Plain region; and it has become inseparable from its host city during the past 90 years. Szeged is one of the most remarkable tourist destinations in Hungary, and this regional centre, which is world-famous for its Hungaricums, gastronomic and cultural events, offers a second home to all the citizens of the University of Szeged. Those who have ever visited Szeged, a place located on the banks of the River Tisza, must have realized that the university, in full co-operation with the city, largely contributes to the prosperity of its inhabitants and to the development of the region extending beyond the frontier.

Cultural life at the university

the annual cultural festivals offer over 500 programs at more than 100 different venues on average, 320 participants enter the talent competitions organized by the university annually there are 27 registered, amateur artistic groups, such as choruses, theatre groups and symphonic bands

The cultural events organized by the university perfectly complement the wide variety of cultural programs provided by the city, as the festivals also attract audiences outside the university. Since 2000, the Autumn Cultural Festival and since 2004 the University Spring have been organized annually. At these exhilarating events the citizens of the university can showcase their talents alongside famous artists at the various premieres, exhibitions and meetings.



UNIVERSITY OF SZEGED Where knowledge and challenge meet



"Sporting University"

36 university students have participated in the Summer Olympic Games since 1928

11 Olympic champions

300 sports courses covering over 30 different sports every term

120 teams participating in the University's Five-man Football Championship

numerous students finishing in the first three at the Hungarian Universities and Colleges' National Championship, entries in over 20 different sports

that called the first

16 countries, 100 competitors at the 5th World University Squash Championship in 2006

29 countries, 400 rowers at the 11th World University Rowing Championship in 2010

The results and positions of the athletes attending the University of Szeged clearly demonstrate that the institution is an active and successful participant in sporting events organized by universities worldwide. Furthermore, the sporting events of the previous years taking place in the city also prove that the University of Szeged is among the best in sports event management. All these successes reflect the university's general attitude, that is, besides scientific results, achievements of competitive and recreational sports are equally important parts of student life.

Olympic champions of the University of Szeged (1928–2008)

Mária Littomeritzky (1952 Helsinki, swimming, women's 4x100 metres freestyle relay), Dániel Magay (1956 Melbourne, fencing, sabre team), Katalin Juhász (1964 Tokyo, fencing, foil team), Gábor Csapó (1976 Montreal, water polo), Attila Ábrahám (1988 Seoul, kayak-canoe, K-4 1000 metres), Zsolt Borkai (1988 Seoul, artistic gymnastics, pommel horse), Rajmund Fodor (2000 Sydney and 2004 Athens, water polo), Gergely Kiss (2000 Sydney and 2004 Athens, water polo), Tamás Molnár (2000 Sydney and 2004 Athens, water polo), Natasa Janics (2004 Athens, kayak-canoe, K-1 500 metres, K-2 500 metres, 2008 Beijing, K-2 500 metres), Attila Vajda (2008 Beijing, canoe, C -1 1000 metres)

Services provided for university students

The University of Szeged provides its students with an integrated system of student services designed to enhance the quality of student life. It is a lot easier to get ahead in life in the maze of academic requirements, to overcome the difficulties of career building in a supportive environment. Amongst the services helping the welfare of students there are the Student Counselling Centre helping students with advice and courses in building their carriers in a conscious way and the SZTE Alma Mater gathering alumni to be found. Thus it is no wonder that the citizens of the university are equally renowned for their expertise, skills and solidarity.

SZTE Alma Mater – increasing number of members over 1000 job offers trainee programs at the annual Job Fair of the University of Szeged Student Counselling Centre of the University of Szeged – support given to over 50 students with disabilities annually

over 130 students receiving Fellowship granted by the Republic every year

Companies receiving Alma Mater Award

Those partners of the institution's alumni organization are nominated for the Alma Mater Award of the University of Szeged which employ the largest proportion of graduates in the city. The companies receiving this award maintain exceptional relationship with the university, and their employees still remain active participants in university life after their graduation.

2006 - Siemens

2007 - 3C Szeged Ltd

2008 - GE Hungary Plc Healthcare R&D Division

2009 - sanofi-aventis/Chinoin Plc

2010 - iKron Group of Companies

Talent support

To motivate and reward the most gifted students of the university, the institution provides opportunities for them to excel in science, arts or sports. A Talent Point at the university was established to make the selection of the most talented students from the nearly 30,000 university citizens much more effective, and to grant them support.

The better the management of scholarships and grants is, the more successful talent support becomes, and it can help turn unhoned talents into exceptional ones.





SUSTAINABLE DEVELOPMENT

– investments at the University of Szeged

What makes a university green? A green university is committed to environmentally responsible behaviour and environmental consciousness as an educational concern. Either in its energy strategy concerning larger investments or its everyday climate-friendly activities, the University of Szeged attempts to make it obvious by means of its popular programs that the citizens of the institution take environmental protection seriously. As a result, according to the Indonesian UI Green Metric Ranking of World Universities in 2010, the University of Szeged is the greenest university in Eastern Europe.

THE GREEN UNIVERSITY

On the one hand, the infrastructure investment projects in the past years have provided university citizens with state-of-the-art spaces for education, research and community activities, while these investments due to their mature planning can also meet the highest requirements of energy efficiency. As a result of these successful developments, which consider the utilization of renewable energy sources as a high priority, solar fields, thermal wells, heat pumps, greywater systems and Planibel Tri, specially designed glass are used in the buildings of the University of Szeged to contribute to sustainability.

COMPLETED INVESTMENTS (2007 - 2011)

Regional Knowledge Transfer and Service Centre, Szeged (2011)
main budget of the project: HUF 2.5 billion
complete renovation of the historic building
the Rector's Office and the university's technology transfer centre in the heart of the city

Construction of a new building to house the Faculty of Engineering (2011) main budget of the project: over HUF 917 million, approximately 3300 m² geothermal heating and cooling system

Botanical garden (2010) main budget of the project: over HUF 172 million renovation of the phytotron facility and the "Hollandiház" (Dutch house)

The Department of Art and Art History at the Gyula Juhász Faculty of Education (2010) energetic modernization replacement of doors and windows, modern heating system

Öthalmi Student Hostel (2009) main budget of the project: HUF 564 million facade insulation, replacement of windows, roof insulation, complete mechanical and electrical renovation

Biology Building (2007) main budget of the project: HUF 1 billion, 2477 m² education and research centre

Faculty of Economics and Business Administration (2007) main budget of the project: HUF 504 million, 2252 m² a state-of-the-art building to house the Dean's Office of the Faculty of Economics, new classrooms



Publisher: University of Szeged

6720 Szeged Dugonics square 13.

www.u-szeged.hu

Scriptwriter: Dr. Lilla Kocsis
Translation: Zsuzsanna Lengyel
Proof-reading: Patrick Alexander

Design: Gábor Kóthay (Job Art Studio)

Photo: Fotó-Grafika Stúdió, Sándor Márton and University archives

Printed by: Innovariant Nyomdaipari Kft.

The brochure was commissioned by the University of Szeged in the framework of the programme named "Acknowledgement and dissemination of scientific achievements at the University of Szeged".

National Development Agency www.ujszechenyiterv.gov.hu **06 40 638 638**





The project is supported by the European Union and co-financed by the European Social Fund.