EDUCATION INTERNATIONS SCHOLARLY New Cooperations in the 2014/2015 UNIVERSITY LIFE UN

NUMBERS WE CAN BE PROUD OF: University of Debrecen Facts and Figures 2015

ACTIVITIES UNIVERSITOR OF THE University ADMISSION INFORMA HEALTH STUDENT SPO



A Word from the Rector Rector

As a result of changes that have occurred in higher education and at the University of Debrecen, and also in response to requests from our partners, we are publishing this booklet each year to provide a comprehensive overview of the most important education, scholarship, and research achievements of the University of Debrecen. The booklet also includes information, supported by key facts and figures, about the university's international relations and its financial management and organization.

We will introduce our university through numbers. The goal is to provide a comprehensive and clear overview of the activities of our institution to the members of the university community, our partners from the public sphere and business sector, our prospective students, government decision-makers, competitors, as well as our recent graduates and their employers.

The graphs and charts lend themselves to analysis from multiple perspectives. We hope also that this collection demonstrates that the University of Debrecen is a successful and attractive institution of higher education with tremendous value and an outstanding record.

I recommend this publication to the public in the hope that based on the facts and figures included in it and your own experience with our institution you will also consider and recommend the educational programs and scholarly-research services of the University of Debrecen.

Debrecen, September 2015

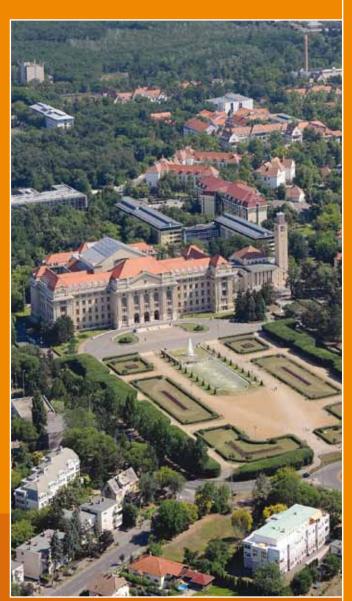
Dr. Zoltán Szilvássy Rector







Organization of the University of Debrecen



The University of Debrecen builds on the centuries-old traditions of Hungarian higher education and the principles of the Magna Charta of European Universities. It strives to realize the idea of universitas in cooperation with numerous Hungarian and international partner institutions and organizations. As part of the higher education system of the European Union, its main objective is to contribute to the advancement of society, improve its competitiveness, and strengthen the effectiveness of UD's cooperation with the fields of education, research, and the economy by providing high-quality educational programs and services and by cultivating basic and applied sciences.

The primary task of the University is to provide and further educate for society both theoretical and practical experts with a university degree in numerous fields of the sciences and the arts; people who are highly-qualified and have internationally competitive theoretical and practical expertise. Furthermore, it is also the institution's duty to contribute to the development of society, the economy, and the scholarly life of the country especially the Eastern region of Hungary and Debrecen, to the training of teachers, the promotion of healing and health, the improvement of the agrarian sector and rural areas, the preservation and advancement of sport, culture, and art.

The University performs its tasks through its educational and scholarly research units (faculties) and the service organizations and centers, who are assisted in their work by functional departments.

UNIVERSITY

EDUCATIONAL AND SCHOLARLY RESEARCH UNITS

- Faculty of Law (ÁJK)
- Faculty of Medicine (ÁOK)
- Faculty of Arts and Humanities (BTK)
- Faculty of Health (EK)
- Faculty of Dentistry (FOK)
- Faculty of Economics and Business Administration (GTK)
- Faculty of Pharmacy (GYTK)
- Faculty of Childcare and Adult Education (GYFK)
- Faculty of Informatics (IK)
- Faculty of Agricultural and Food Sciences and Environmental Management (MÉK)
- Faculty of Engineering (MK)
- Faculty of Public Health (NK)
- Faculty of Science and Technology (TTK)
- Faculty of Music (ZK)

SERVICE DEPARTMENTS

- Office of the Director of Educational Affairs
- Office of the Director of Scholarly Affairs
- Center for Student Relations and Services (HKSZK)
- University of Debrecen University and National Library (DEENK)
- Coordinating Center for International Education (NOKK)
- Coordinating Institute for Sports Sciences (STKI)
- Clinical Center (KK)
- Center for Agricultural Sciences (ATK)
- DExam Language Exam Center
- Coordination Center for Drug Development (GYKK)
- Teacher Training Center (TKK)
- Public Education Institutions, Kindergarten, Nursery

FUNCTIONAL ORGANIZATIONAL UNITS

- Office of the Chancellor
- Independent Internal Audit Department







Education

Among the institutions of higher education in Hungary, the University of Debrecen has **one of the largest student populations with 30,409 people studying** at the university.

In the 2014/2015 academic year, the University of Debrecen was again the **most popular institution of higher education outside the capital:**

- In the general admissions procedure there were
 - 14,363 applications, representing 8.3 % of all applications8,256 first place applications, 8.7 % of all first place applications6,004 admitted students, 9.3% of all students admitted
 - (the total number of students admitted including international students: **8,308**)

The University of Debrecen is the country's **oldest institution of higher education that has been operating continuously in the same city:**

- Education on **7** campuses
- **14** faculties
- 2 teacher-training secondary schools and 2 elementary schools

Our talent management programs have more than **500** student participants, **129** students were awarded prizes at the 2015 **OTDK** (National Conference of the Scholarly Students' Association).

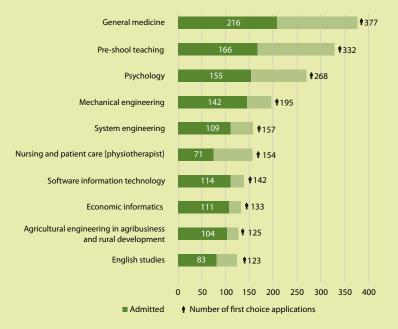




UD offers the **widest range of educational programs** in Hungary:

- Students may choose from close to **21,000 courses** offered,
- with an average of **320,000 course**registrations every semester
- in **77 Bachelor's** programs
- **84 Master's** programs
- 8 undivided, one-tier programs
 - 41 postgraduate specialist courses
- The university offers 23 higher level vocational training programs and 33 foreign language programs

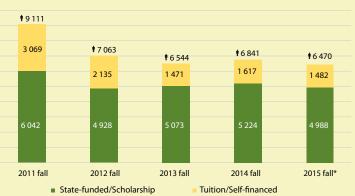
The Most Popular UD Majors Based on First Choice Applications, 2015/2016



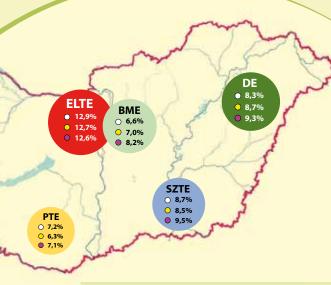
The University of Debrecen has maintained its leading position in terms of first choice applications among universities outside the capital: **8,256** students chose the institution as their first choice when applying

Admission Information





* Fall 2015 represents data both from the general admissions procedure and the second round of admissions.

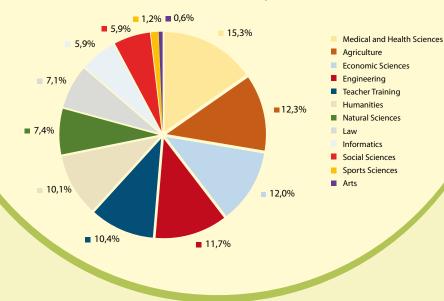


- o Proportion of all applications
- Proportion of first place applications
- Proportion of admitted students

Data shown in the proportion of all state institutions, with respect to the general admissions procedure.

Student Numbers

Distribution of UD Admission Numbers According to the Educational Field, Fall 2015

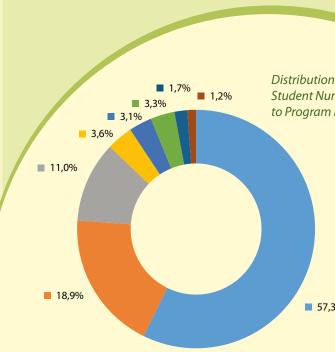


UD Student Numbers According to Type of Funding, 2010–2014



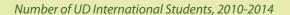
From September 2015 dual bachelor's programs were begun in two areas (engineering and agriculture), where students can also acquire practical skills in cooperation with more than 20 business partners.

The highest percentage of students with state-funded scholarships can be found at the Faculty of Music (88.85%), while the highest proportion of students paying for their own studies may be found at the Faculty of Law (83.7%).



International Students







Percentage of international students in the total no. of students

of UD Active nbers According Level, 2014/2015 One of our students traveled

16,000 kilometers to study
here, while another has
attended for 17 years
earning 9 diplomas
at the University of
Debrecen.



Bachelor's

Undivided, one-tier

Master's

Postgraduate Specialist Training

Ph.D. students

Higher Level Vocational Training

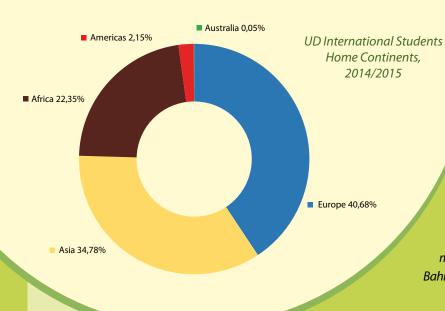
Other training levels

Preparatory



%

International Students

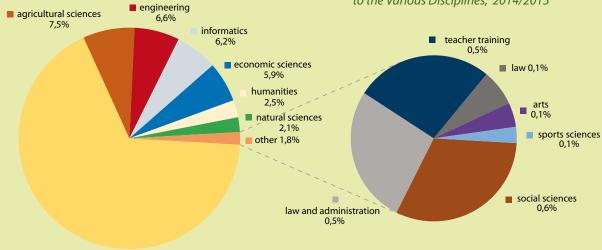


medical and health sciences 67,3%

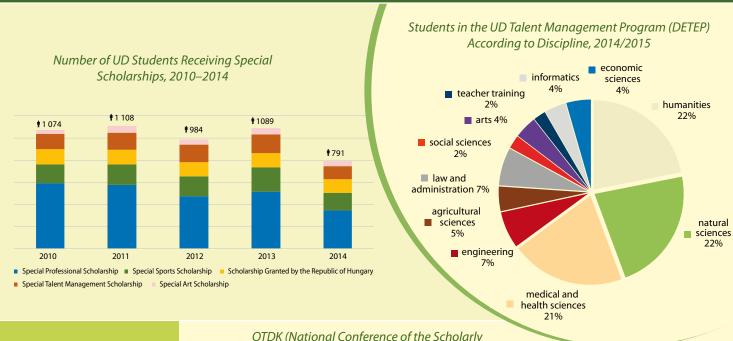
In the last three academic years there have been three **international students** who started their studies at the age of 15 in the preparatory program of the university's English-language medical program.

There are more than 4,000 international students studying at the university from more than 105 countries. Most of them are from Nigeria (644 students) and Romania (434 students). A student from New Zealand came the farthest (almost 16,000 kilometers) to study in Debrecen, but we also have students from Bahrein, Benin, Burundi, Laos, Mauritius, Myanmar, and Togo.

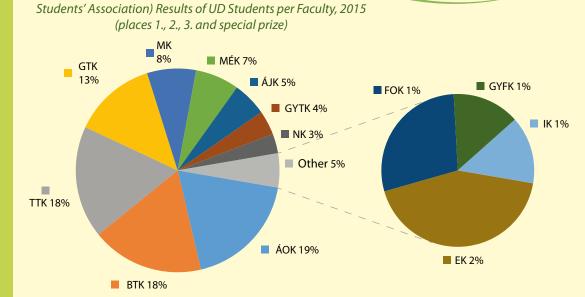




Who we are proud of: our most talented students



Three real sports stars also studied at our university during the 2014/2015 academic year. Éva Risztov, Olympic champion swimmer, Bence Biczó, silver medalist in the European Swimming Championships, and Dezső Bereczki, ranked table tennis player at the London Paralympics; each received scholarships awarded to excellent university athletes.



Education

Noémi Miltner

first year Ph.D. student at the Doctoral School of Molecular Cell and Immune Biology

First prize winner in the medical and health science section of OTDK (Conference of the National Scholarly Students' Association), leading member of the Debreceni Hősök (Debrecen heroes) charity group, enthusiastic volunteer at the Researchers' Night and other university events.







Máté Ferenc Koncz graduating software engineer in the BSc program

Intern at IT Services Hungary Kft., carries the symbol of the university, the *gerundium*, at university events. In his free time, he develops mobile applications and enjoys playing the piano.

Faculty of Informatics

Andrea Szabó second year law student

Her research interest focuses on criminal law and the study of child abuse cases, in her free time she works at animal shelters and would like to work as a volunteer at Hungarian aid organizations.

Faculty of Law



Who we are proud of: our most talented students

Judit Boglárka Balogh first year student majoring in social work

Enthusiastic helper and volunteer, active member of the Student Union. She is also an untiring contributor to the organization of the Researchers' Night and other university events. Her research interests include the effects of migration on the emotional development of children.

Faculty of Arts and Humanities



Zsuzsa Gál

prize winner at OTDK, first year student in the Business Development

MSc program

Her research areas cover environmentally conscious behavior and its effects as well as the study of the emission of pollutants by businesses and opportunities for their reduction.

Faculty of Economics



Veronika Vathy first year student in the Agrobusiness Engineering MSc program

Student representative of the Béla Tormay College for Advanced Studies, who participated in numerous conferences. She is interested in the economics of beekeeping and honey consumption.

Faculty of Economics



István Pásztor

first year student majoring in public administration management and agricultural computing

Winner of the first prize at OTDK in the agricultural sciences section. Member of the Students' Health Committee and enthusiastic contributor to university events.

His research focuses on issues related to arable soil types.

Faculty of Economics



International Relations

The University of Debrecen has **852 bilateral agreements** with **630 partner institutions in 52 countries.**

The number of Erasmus partnerships is 454, In 2014 this meant a total of 923 grant months.

ERASMUS, CEEPUS, and **ISEP** programs in the last five years:

- Number of outgoing students: 1,197
- Number of incoming students: 918
- Number of outgoing faculty: 451
- Number of incoming faculty: 283

In the **Campus Hungary** applications announced between 2012 and 2015, UD was **the most successful institution of higher education:**

we won **3,010 grants,** out of which **2,434** were for students and **576** for faculty







International Relations



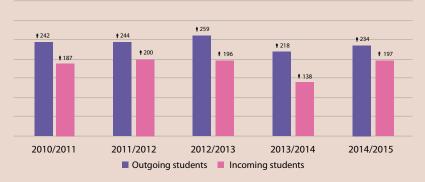
52 countries, **630** partner institutions, **923** ERASMUS grant months in 2014.

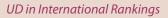




International Relations

Number of Students Participating in the UD Mobility Programs, 2010-2014





Ranking		Position in 2014	Position in 2015	
Webometrics	World Universities' ranking on the web	530	498	
ARWU - GRUP	Global Research University Profiles			
URAP	University Ranking by Academic Performar	nce 564	522	
CWUR	Center for World University Rankings			
BRICS	BRICS & emerging economies ranking	60	67	









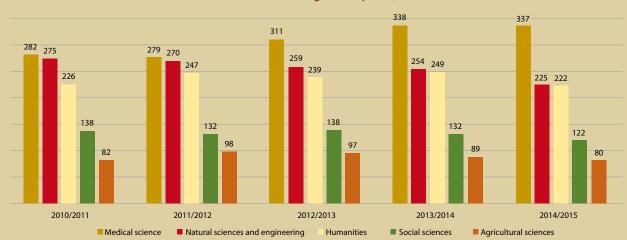


Among the universities outside the capital, the University of Debrecen is the most extensive scholarly center with research university status:

- **142** Doctors of Science (Hungarian Academy of Sciences),
- **26** Members of the Academy,
- **932** instructors and researchers with a Ph.D. degree currently working at our university.
- 80% of our faculty (1,120) hold doctoral degrees;
- **99** researchers hold doctoral degrees.
- 25 doctoral schools, 26 disciplines, 69 doctoral programs
- **986** PhD students at UD there are **12** Colleges for Advanced Studies



Number of Ph.D. Students According to Disciplines, 2010–2014



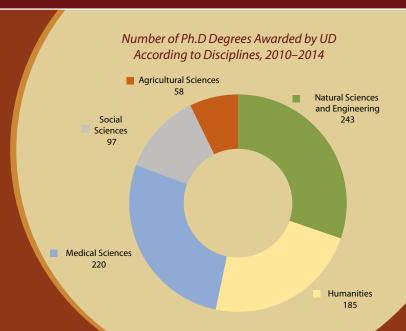
Between 2010 and 2014 we won **22 billion HUF** for R&D projects in grant applications,

out of which **6,216 million HUF** came from the Research and Technology Innovation Fund.

The amount received from our contractual activities (commissioned research) exceeded **7.2 billion HUF.**

The university has close to **39** effective **R&D contracts.**

When the monarch Charles IV visited Debrecen for the inauguration of the first building of the university, he conferred the first doctoral degree with a golden ring to Zoltán Nagy, a lawyer, on 23 of October 1918.



Name	2010	2011	2012	2013	2014
Budgetary support in total (mHUF)	1 189	1 285	1 071	1 893	1 094
Funds received for R&D tasks (mHUF)	3 587	4 214	3 676	5 601	4 896
from Research and Technology Innovation Fund	1 407	1 455	798	1 120	1 436
from National Development Agency	1 510	1816	2 118	3 882	2 949
directly from the EU funds	396	535	467	279	355
Income from external commission, contractual activity (mHUF)	1 133	1 399	1 380	1 540	1 723
Number of national R&D tenders	259	239	212	281	208
Number of international R&D tenders	71	78	67	85	57





At the doctoral graduation ceremony held in June 2015, Kinga Sikolya, instructor at the Department of Applied Mathematics and Probability Theory and Ph.D. candidate at the Doctoral School of Information Sciences, received her *Promotio sub auspiciis praesisentis Rei Publicae doctorate* with the approval of the President of Hungary and the golden ring decorated with the coat of arms of Hungary. This special recognition is given to those outstanding students who completed their high school, university, and doctoral studies with excellent results and also received a summa cum laude distinction at their Ph.D. exam and defense.

Within the Hungarian **National Excellence Program** that provides research support for talented students and researchers, **thirty nine UD researchers** received the Award for National Excellence.

The Department of Electrical Engineering and Mechatronics at the Faculty of Engineering developed a prototype for an innovative waste collector (garbage truck) driven by electricity generated by solar panels, which can economically replace the current expensive collection process. The electric vehicle collected more than a thousand tons of waste during its close to three-hundred-kilometer long trial (25–30 kms per run) completed during the test period.



2014: Dr. György Panyi and Dr. Zoltán Varga

Faculty of Medicine

"Production of high affinity and selectivity peptide blockers of Kv1.3 ion channels"



Innovation award winners of the last 5 years



2013: Dr. József Posta

Faculty of Science and Technology

"Development of a method and apparatus suitable for the monitoring of thermal processes based on a new principle"



Faculty of Engineering

"Frequency inverter controlled AC drive for electric vehicles"



2011: Dr. József Prokisch

Faculty of Agricultural and Food Sciences and Environmental Management

"Production of nano-sized elemental selenium with probiotic lactic acid bacteria for use in animal feed and the food industry"



2010: Dr. Irma Korponay-Szabó et al.

Clinical Center

"Diagnosis and treatment of gluten-induced autoimmune diseases"



Financial Data, Management



The University of Debrecen has the largest budget among institutions of higher education in Hungary.

In 2014 the balance sheet total of the university was **89 billion** Hungarian Forints, **86,900 mHUF** revenue and **72,057 mHUF** expenses were accounted.

The University of Debrecen received **18,101 million HUF state funding** for operation and **19,635 million HUF** was paid to the state budget in the form of **taxes** and contributions.

Its own revenue exceeded 17 billion HUF, the amount of received financial assets was 42 billion HUF, out of which the amount of OEP (National Health Insurance Fund) reimbursement was more than 32 billion HUF.

Companies with 100% ownership total **6**, with **193** million HUF worth of total UD shares in the companies.

In 2014 the University of Debrecen submitted more than 100 applications out of which 97% were positively assessed. The requested support in applications submitted exceeded HUF 15 billion.

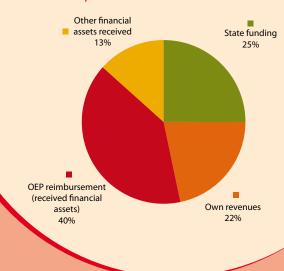
84% of winning applications was nationally or co-

84% of winning applications was nationally or cofinanced.

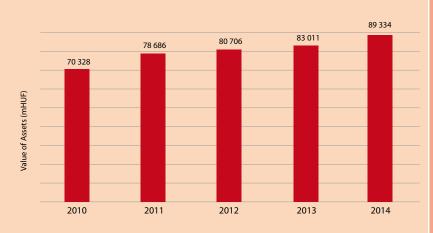
Financial Data, Management



Composition of UD Revenues for 2014



Changes in UD Assets, 2010–2014



The Sports Science Education Center to be completed by the end of 2015 on the University Square campus will be home to a **1,166 m² playing field,** a **679 m² gymnastics center,** a smaller gym and the related service rooms, (teachers' rooms, changing rooms, washrooms, medical room, smaller rooms and storage areas) and corridors with a useful floor area of **4,200 m²** in total.

Health





In 2014 the OEP (National Health Insurance Fund) **subsidy** received by UD was **32.1 billion HUF.**

- The authorized number of beds was 1,694,
- the average time of care **5.3 days**,
- the number of specialist doctors **585** and the number of
- health care workers **1,500.**
- The number of completed nursing days was **503,708**
- and the completed specialist doctor's hours was **293,644.**
- The number of medical procedures exceeded **5.7 million** cases,
- more than half of these were laboratory, **48%** outpatient.
- Inpatient cases: **95,336**,
- Outpatient cases: **887,032,**
- Laboratory cases: **495,645**.

The number of **special procedures:**

- Brain gamma surgery: **403**,
- Kidney transplants: **39**,
- Adult autologous bone marrow transplant: **52.**





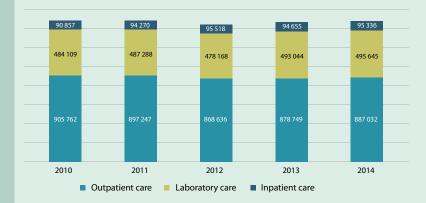
Health

A world-class Translational Research Center was established in the Clinical Center of the University of Debrecen Teaching Hospital in 2015, with the establishment of a radiochemical laboratory with high-quality instruments for identifying new drug molecules with different isotopes. A preclinical laboratory was also established with a HUF 1 billion investment, where the distribution of radiolabeled molecules may be identified with the help of state-of-the-art equipment. Uniquely in Hungary, the center also utilizes innovative integrated technology for the preclinical and clinical phases of drug research essential for pharmaceutical companies.

By 2016 Hungary's largest health care institution will be created in Debrecen through the integration of the University of Debrecen and the Gyula Kenézy Hospital and Clinic. This institution will be capable of providing a full range of health services from the simplest care to the most complex operations. This integration will also improve the quality of medical education at the University of Debrecen due to increased number of practical training locations. By means of this integration process, a new model will be implemented in Debrecen which will provide better patient care and education.

The University of Debrecen's Special Medical Team provided care for **350 people** in one week near Katmandu. The Team traveled to Nepal with three physicians, one technical assistant, and **three hundred kilograms of equipment** to help the victims of the 7.9 magnitude earthquake.

Outpatient, Inpatient, and Laboratory Care Case Numbers at the Clinical Center of UD Teaching Hospital, 2010–2014



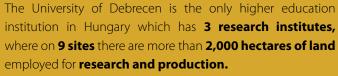
Number of UD Specialist Doctors and Healthcare Staff, 2010–2014



Agricultural LTURAL







1,648 hectares are used for cultivation of crops on arable land Revenue related to production exceeded **440** mHUF in 2014.

- **31** types of plant species grown on arable land
- **89** varieties, 2 variety candidates
- more than **2,900** livestock

The production activities of the Research Institute and Demonstration Farm are facilitated by **73 power machines** and **609 machine** tools.

The primary task of UD's Center for Agricultural Sciences (ATK) besides research is to provide a high-quality practical education, close to **400 students** per year receive weekly and semester practical training.





Other (horses, goats); 32; 1% Sheep: 1 220, 42% Native hens: 710: 24% Composition and Distribution of Livestock at the UD Center for Agricultural Sciences, 2014

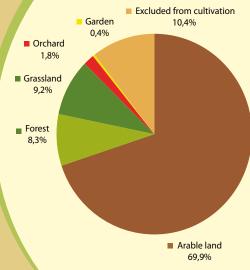
crop production, horticulture, animal husbandry, food science, and quality assurance. Significant projects have been realized within the **7th Framework Program of the European Commission** and within an international consortium. Research conducted covers several scholarly fields: precision agriculture and land use, healthy food, and integrated crop protection systems. The Center for Agricultural Sciences has numerous Hungarian and international partners including institutions of higher education, research institutions, large companies, as well as small and medium-sized enterprises. The institution holds **19 Hungarian patents.**

RANKED
WORLD
RANKINGS
2015
Soft Safapect
Agriculture and Forestry
Top 200

Research and training provided at the Center for Agricultural Sciences have also contributed to the University of Debrecen being included among the **top 200 institutions** in **the World University Rankings of Quacquarelli Symonds** in the field of agriculture. The University of

Debrecen offers a world-class agricultural training program, an increasing number of students come to study at the Faculty of Agricultural and Food Sciences and Environmental Management from all parts of the world especially to the food safety and agricultural engineering in environmental management programs.

Size of Land at the UD Center for Agricultural Sciences and Land Distribution According to Use, 2014



University Life





Students of the University of Debrecen live and study on **7 campuses,** including the grand Main Building completed in 1932 at Egyetem (University) Square, one of the most beautiful educational buildings of East Central Europe.

44% of university students are male, 56% female. The proportion of women is especially high at the Faculty of Childcare and Adult Education as well as the Faculty of Health, while the opposite is seen at the Faculties of Informatics and Engineering.

UD has **4,800 dorm beds.** In 2014 we could provide dormitory accommodation for **88.95% of applicants.** The **7 libraries** of UD are available on **five campuses, with a total reading space of 3,806 m2, 917 seats, open for 290 days.**

Library holdings exceed 6 million volumes adding 37 thousand items every year.

The University's Translation Office translates **5000 pages of texts to 42 different languages.**



University Life

The University of Debrecen won the **"Family-friendly Institution"** title for the fourth time in 2015.

Every year more than **200 students participate in the summer event of the Faculty of Music,** the Young Musicians' Summer Academy. During the jubilee event in 2015, students coming from **26 different countries** including Australia, Singapore, and Argentina, enrolled in 14 master classes.

Our **oldest alumnus turned 100 years old** in December. The **DEja Vu Alumni magazine** is published every semester in more than **10,000 copies** and it is also received by alumni members living abroad.



Number of Athletic Awards/Medals Won by UD Students in the National Championships of Hungarian University and College Students, 2010-2014







University Life





In an average year there are more than **600 news** items **published on unideb.hu**, the official website of the university.

The institution's **Facebook profile**, managed together with students, already has **30,000 followers** and is the most popular among Hungarian institutions of higher education while the university's **own Youtube channel, with more than 400 videos uploaded,** has had more than **300,000 visitors.**

In the university's own **DExam language exam system 90-92% of candidates take an intermediate language exam,** and the DExam language exam may now be taken nationwide at **more than 16 accredited exam sites.**

The **Campus Festival** was chosen the Event of the Year while the Man of the Year was Péter Miklósvölgyi, organizer of the festival and member of the university's alumni community.

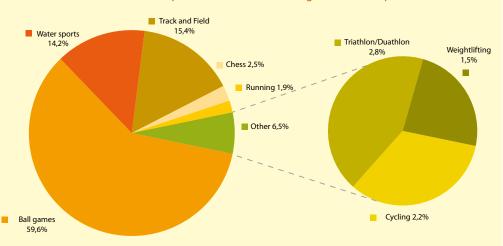


Sports



Students who wish to do sports may choose from **40 different activities** offered by the university.

Distribution of UD Competitive Athletes According to Different Sports, 2014







This year, members of the Athletic Club of the University of Debrecen were crew members on seven ships in the **Blue Ribbon sailing race.**

New Cooperations

A cooperation agreement for innovation aimed at industrial development was concluded by the **University of Debrecen**, the **Municipality of Debrecen**, **ITK Holding Zrt, T-Systems Magyarország Zrt.**, and **E.ON Hungária Energetikai Zrt.** The objective of the several billion forint research and development program is to create innovative solutions for the automotive industry which will be competitive on the international markets. The agreement initiates a 5 to 10-year-long research and development cooperation generating an estimated worth of several billion forints.





The joint grant application of the University of Debrecen, **the local government of Debrecen, the Chamber of Commerce and Industry of Hajdú-Bihar County, and INNO-VA Észak-Alföld Regional Development and Innovation Agency Nonprofit Ltd.** titled "Creation of a Knowledge Park in Debrecen in the key areas of pharmaceutical industry, food industry, and information technology and electronics" won a HUF 580 million grant for strengthening the RDI activity of the region and increasing its competitiveness.

FAG Magyarország Ipari Kft. and the university have extended their agreement that has created internships for students in engineering at the Faculty of Engineering and the Faculty of Science and Technology to the Faculty of Arts and Humanities and the Faculty of Economics. Students participating in the program will gain insights into manufacturing processes, lead independent projects with the help of mentors, thus they become a kind of workforce at a multinational company that is available immediately having the necessary practical skills and experience.



in the 2014/2015 academic year

The cooperation between the University of Debrecen and the **Central Statistical Office** also facilitates practice-oriented training and research and development. Besides the data collecting activity of the Office, the information processed by it is also valuable. The Office provides a unique database while the University of Debrecen provides theoretical knowledge which the Office then builds upon. Besides joint research projects and analyses their employees both study and teach at the university.

The University of Debrecen renewed its cooperation with several local governments.

The health industry objectives of the institution meet the long-term plans of **Mád**, a village in north-Eastern Hungary close to Tokaj, in accordance with which the physiological and medical effects of wines from the Hegyalja region will be studied. It is expected that this cooperation will invigorate tourism in the region and will have a positive influence on local economic development.

The Hajdúság region has been a major market for training programs of the University of Debrecen for decades and it is a key mission of the university to contribute to regional economic development through the utilization of research and accumulated knowledge. This can be central in the case of **Hajdúnánás**, a town in Hajdú-Bihar County, in the fields of agriculture, food industry, and the health industry.

A higher education community training center will begin operation in September 2016 in **Kisvárda**, a town in Szabolcs-Szatmár-Bereg County, providing an opportunity for the local government or businesses to begin university on-site programs. The University of Debrecen begins training programs in the city in agricultural, economic, and medical sciences in the impact areas of food sciences and health tourism, in agro tourism,



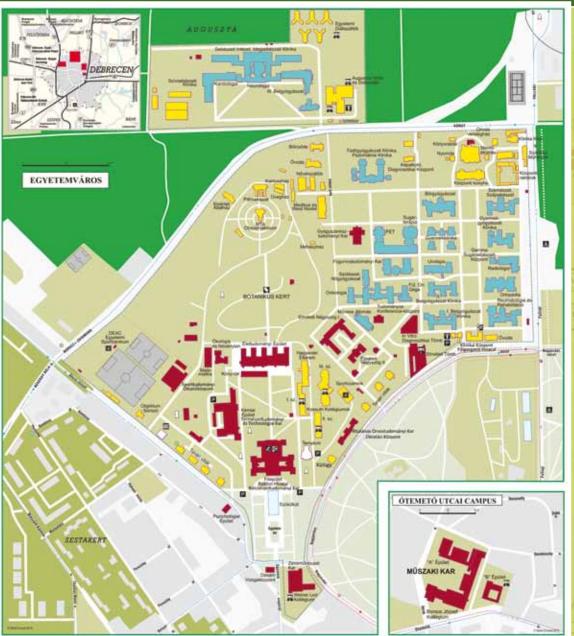
where theoretical education is provided by the university and practical training by the companies.

A Hungarian-Chinese four-party cooperation agreement was signed in the spring of 2015 by the Faculty of Earth Sciences and Geoengineering at Sun-Yat Sen University in Canton, **Shenzhen Deep Eco Ltd.** on the Chinese side and the Faculty of Agricultural and Food Sciences and Environmental Management at the University of Debrecen, and Aquaprofit Zrt. on the Hungarian side. The industrial-university-research agreement extends to the study and modelling of water bases under the surface, exploration and utilization technologies for sub-surface drinking water, the protection of underground water bases, as well as the exploration and utilization technologies for geothermal springs and thermal waters. Besides these, the establishment of university, internship centers provides an opportunity for participation in student exchange programs by university students and those in postgraduate training programs, while it also makes possible joint postgraduate programs and research projects along with the exchange of instructors and experts.

Campuses in Debrecen

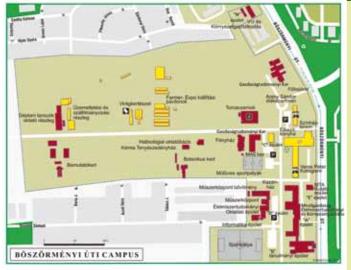






ECEN

Campuses in Debrecen







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