

EUA COUNCIL FOR DOCTORAL EDUCATION WORKSHOP

16-17th June 2016

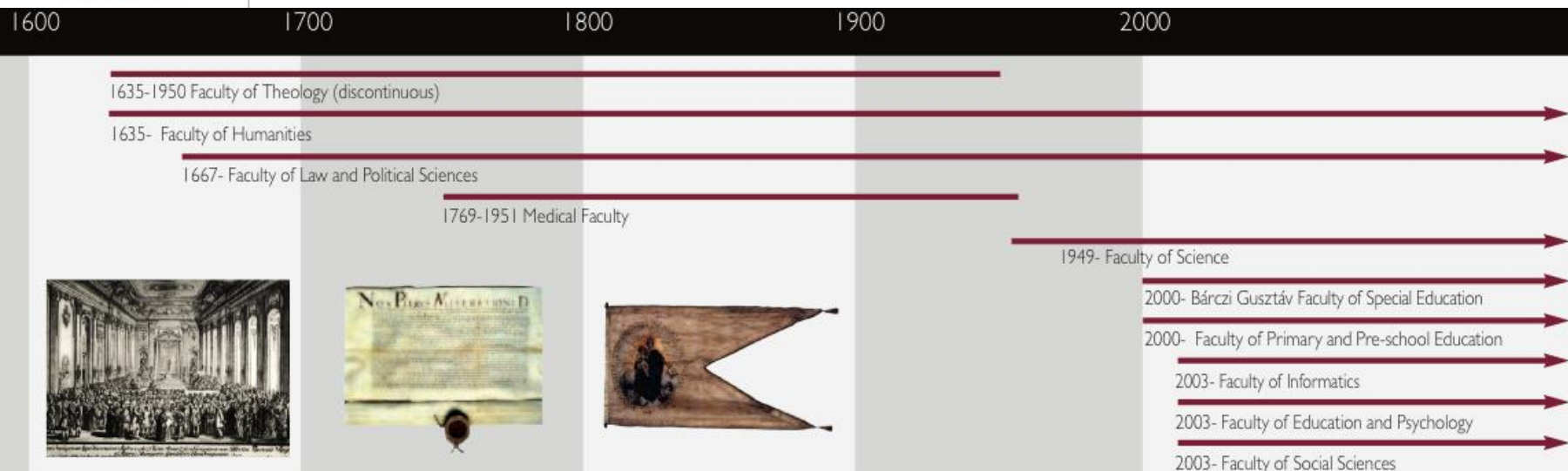
Results and perspectives of doctoral education at a leading Hungarian University

Eötvös Loránd University (ELTE)

Prof. Dr. Péter Szalay
Vice-Rector for Research
Eötvös Loránd University (ELTE)
Budapest, Hungary
E-mail: tudrh@elte.hu



Brief history of ELTE



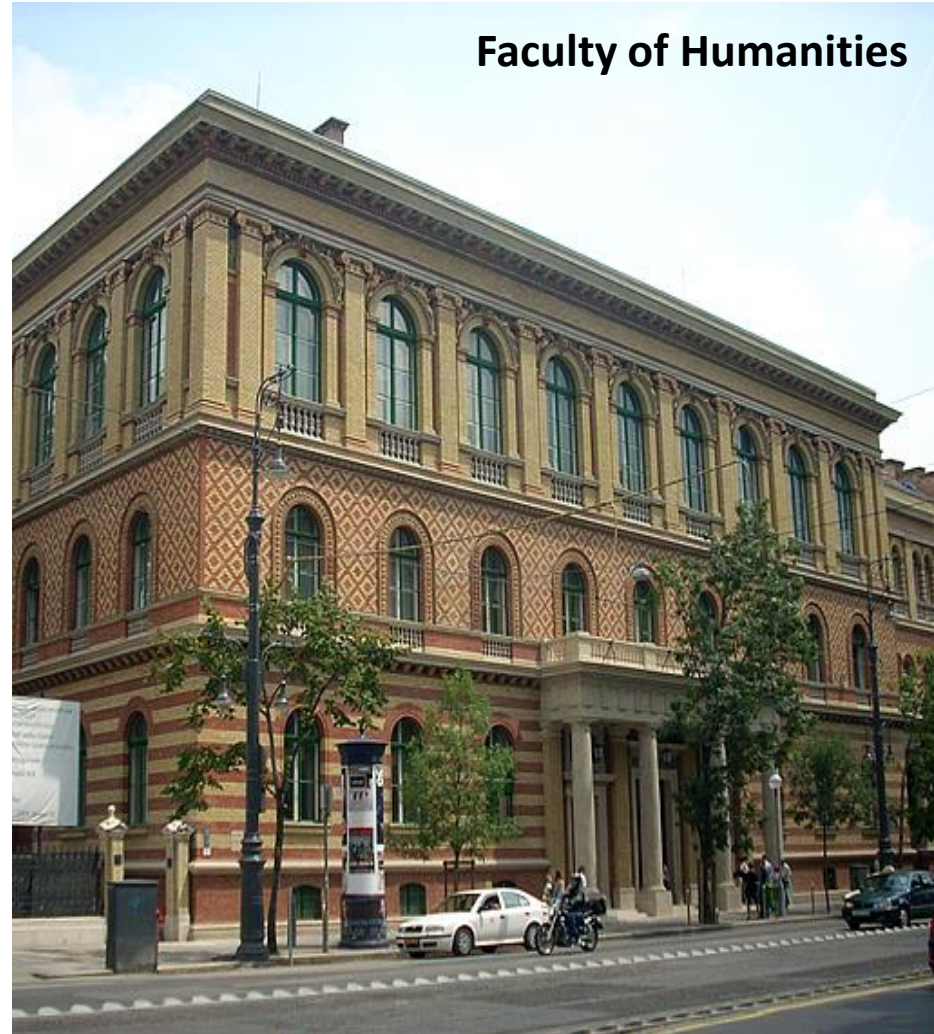
- 1635** Founded by Péter Pázmány, the Archbishop of Esztergom
- 1777** Moved from Nagyszombat (Trnava) to Buda, then to Pest
- Turn of the 18th-19th century** ELTE is among the 15 largest universities in the world
- 1950** Adopted the name of Loránd Eötvös (1848-1919)

**Faculties of Informatics / Science /
Social Sciences**



Eight faculties

Faculty of Humanities

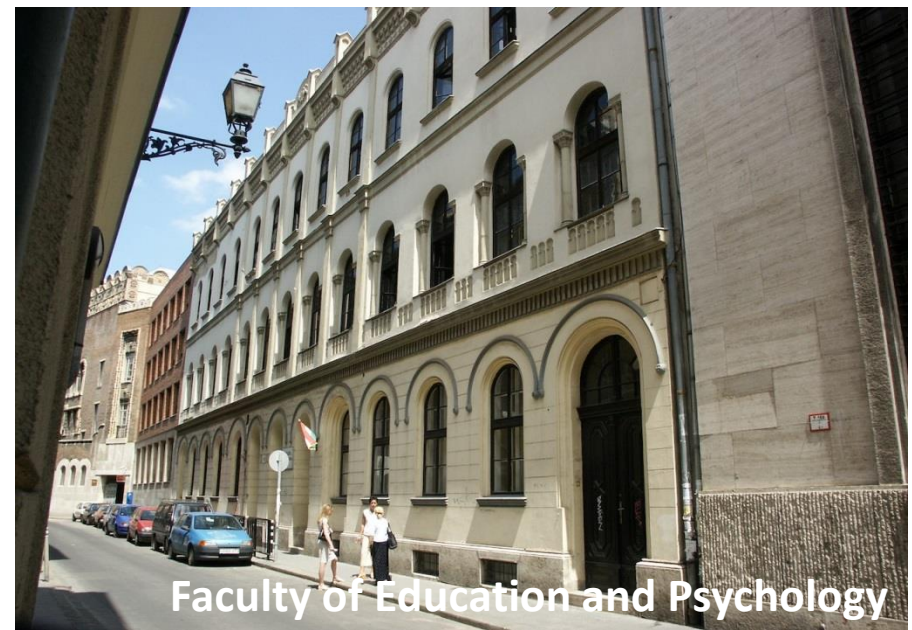


Faculty of Law



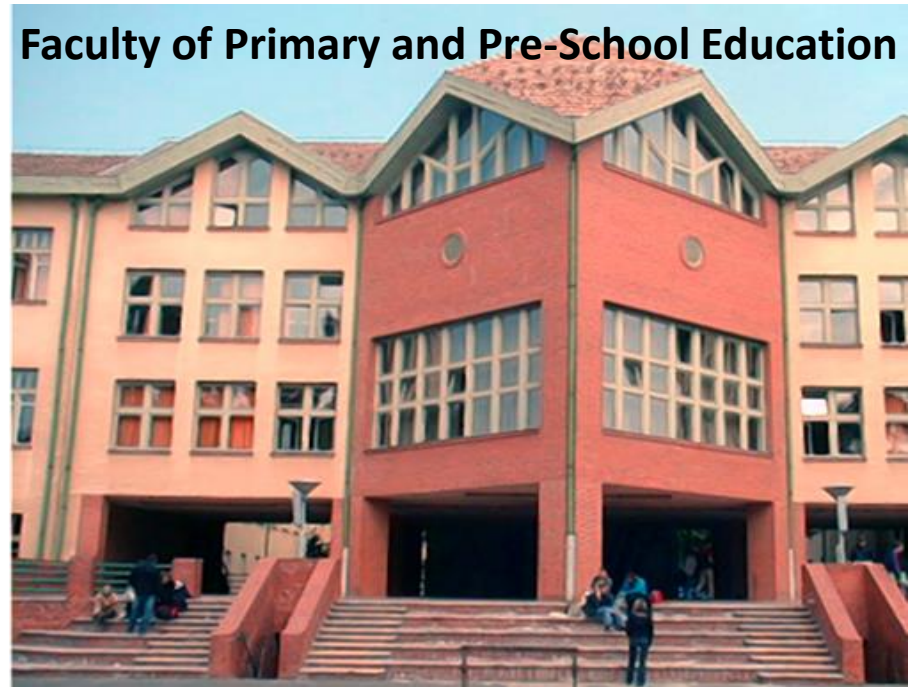
Eight faculties

Faculty of Special Education



Faculty of Education and Psychology

Faculty of Primary and Pre-School Education



ELTE University Library Network *konyvtar.elte.hu*



- Central University Library founded in 1561
- 8th century Beda fragment
- 185 codices, 1,150 incunabula, 2,600 old printed Hungarian books
- 2 million titles, over 200,000 journals, 600 online periodicals, and 100 online databases
- e-text archives, online copies of printed documents, electronic-only materials and CD-ROMs

ELTE Botanical Garden

www.fuveszkert.org



- First botanical garden in Hungary (founded in 1771)
- National nature reserve since 1960
- About 7,000 species and variations of plants

Nobel Prize laureates



Fülöp
Lénárd
1905
Physics



Albert Szent-Györgyi
1937 Medicine



György Hevesy
1943 Chemistry



György
Békésy
1961
Medicine

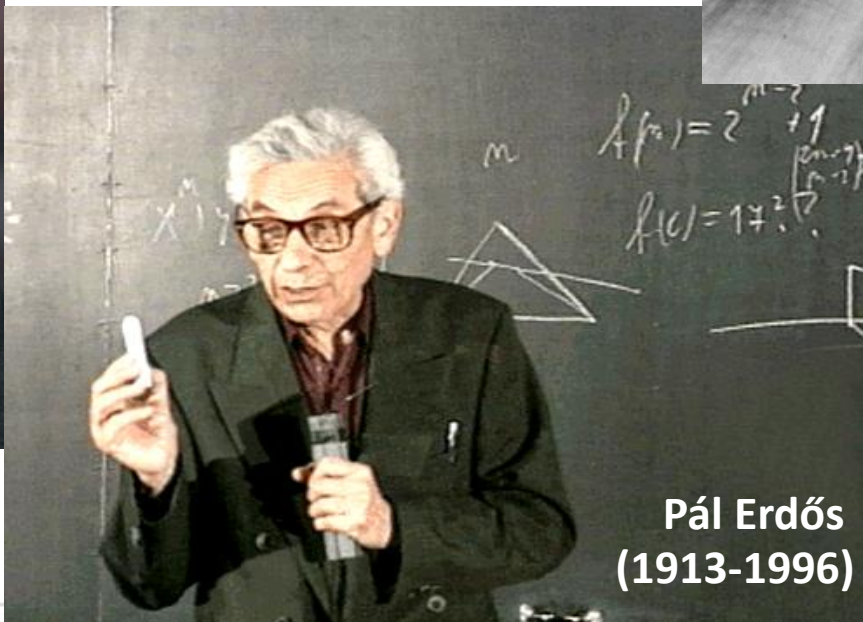


János Harsányi
1994 Economics

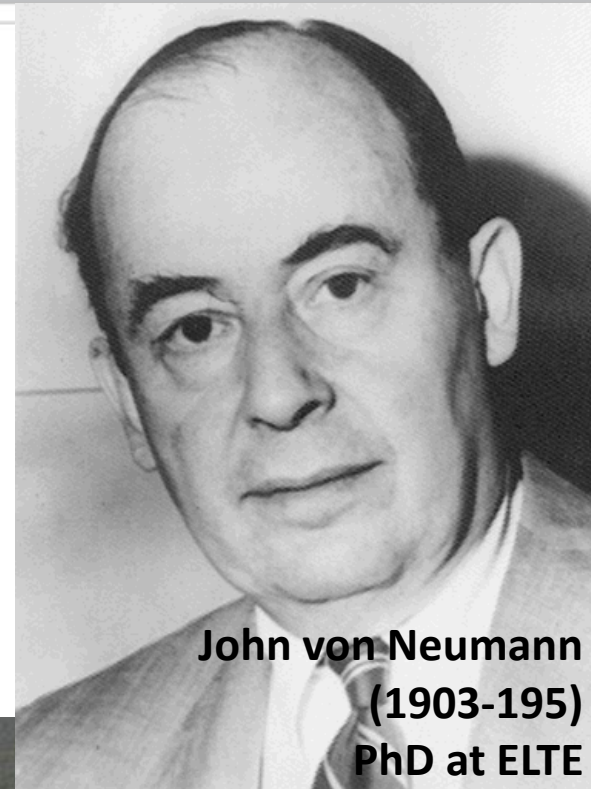
ELTE alumni and professors



László Lovász (1948-)
Wolf Prize, Kyoto Prize



Pál Erdős
(1913-1996)



John von Neumann
(1903-195)
PhD at ELTE



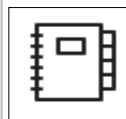
Hungary's largest selection of educational programs



8 faculties



25,000 students, **2,000** international students



37 bachelor programs

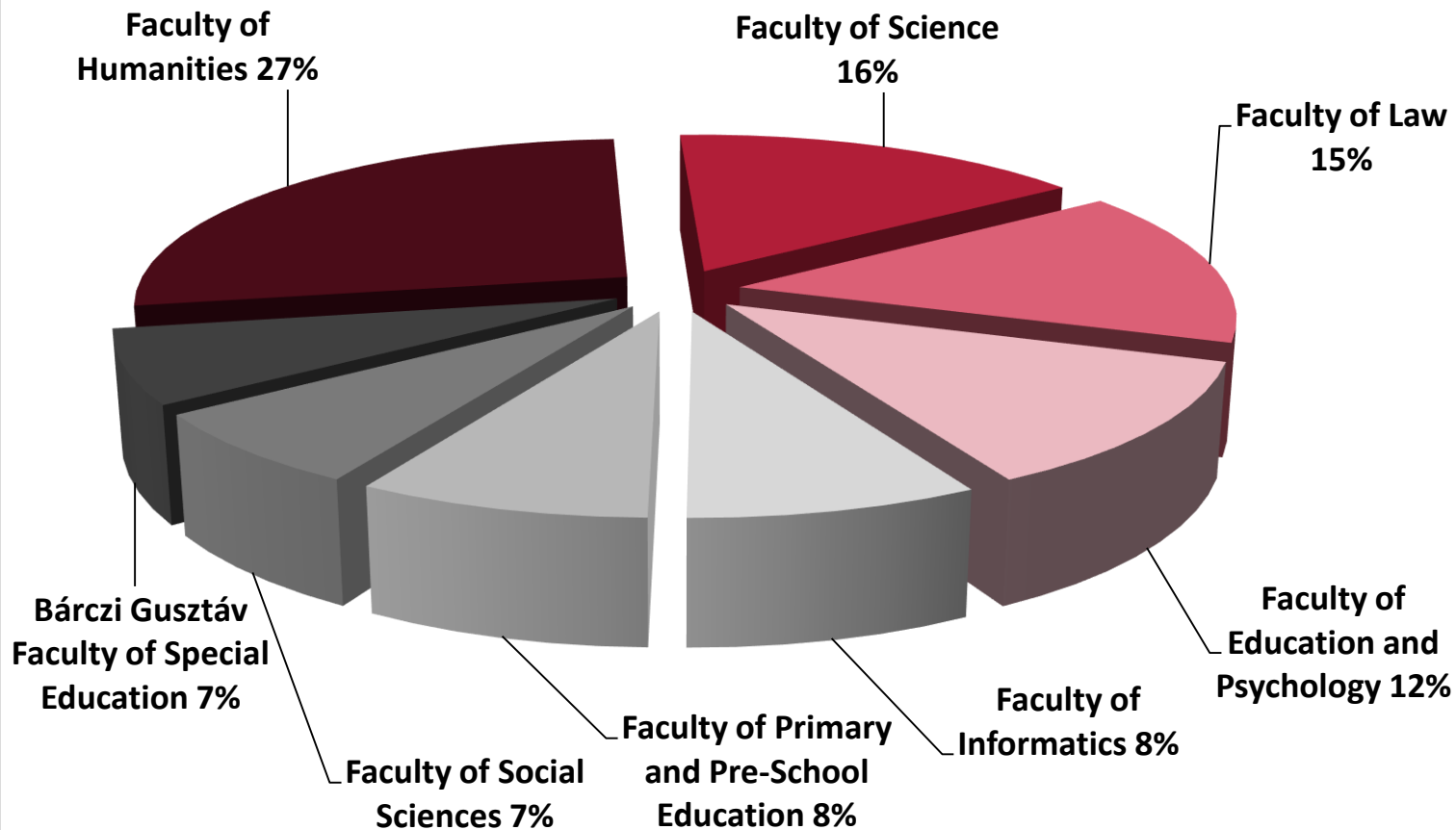


99 master programs



119 doctoral programs in **16** doctoral schools

Facts and figures - Students



Facts and figures – Academic staff



Total number of academic staff: 1 337

PhD or equivalent (DLA, DSc, CSc) 1 018



Including top scientists

Full member of the Hungarian Academy of Sciences (HAS)	62
Corresponding member of the HAS	12
Doctor of the Hungarian Academy of Sciences	305

Doctoral Education at ELTE



People responsible:

Full Professor Péter Szalay, Ph.D.
Vice-Rector for Research

Full Professor Miklós Szabó, Ph.D.
President of the University Doctoral Council

Total number of students: cca. 25 000

Number of active PhD students: cca. 1 500

History of the doctoral education in Hungary

Before 1993: Soviet (Russian) structure:

- University doctorate based on a thesis (dr. univ.)
- Candidate of Sciences (CSc) title given by the Academy of Sciences
- Doctor of Sciences (DSc) title given by the Academy of Sciences – required for full professorship

New law on higher education in 1993:

- Establishes doctoral programs at universities
- dismisses univ. doctorate and CSc
- introduces PhD
- introduces habilitation as requirement for professorship

History of the doctoral education in Hungary

Features of the new doctoral system:

- 3-year study
- programs associated with the specialties of the particular university
- programs accredited by Hungarian Accreditation Board
- 3-year fellowship for the students
- Degree process:
 - Final exam
 - Dissertation – two reviews
 - Public defense



History of the doctoral education in Hungary

Reconsideration of the law in 2002 and 2007:

Reasons:

- too large number of programs throughout the country
- not enough control on quality
- “intercity professors”

New features:

- **doctoral schools** – independent from university structure
- hierarchical levels of doctoral councils
- **well defined disciplines**
- more rigorous accreditation
- **continuous accreditation** of both program and staff

Accredited disciplines

Branch of Science	Accredited disciplines	
	in Hungary	at ELTE
Agricultural Sciences	5	0
Liberal Arts	10	6
Theology	1	0
Engeneering	10	1
Arts	9	0
Medical sciences	5	0
Social sciences	10	3
Natural sciences	6	6
SUM	56	16

History of the doctoral education in Hungary

Reconsideration of the law in 2002 to 2007 (continued):

Hungarian Doctoral Council:

- Most important decisions about the doctoral systems
- Managing the Hungarian Doctoral Database which includes:
 - Doctoral schools
 - Academic stuff
 - Thesis topics
 - Students
 - Degrees awarded
 - Thesis
- Analysis of trends
- Distribution of state-financed scholarships

Homepage of the Hungarian Doctoral Council

← → ↻ www.doktori.hu/index.php?menuid=109&lang=EN



Hungarian Doctoral Council

Login

Forum

Organisation ▾

officers
member institutions
resolutions (in Hung.)
by-laws (in Hung.)

Doctoral program ▾

doctoral schools
by institution
by research field
by number
ceased working
academic staff member
by name
by research topic
archives
thesis topic proposals
by doctoral school
by research field
by research topic
supervision of PhD students
search students

Theses defended ▾

by institution
by research field
by name
by date
by doctoral school

Naturalized degrees ▾

by institution
by research field
by name
by date

Habilitation presentations ▾

by institution by research field by number ceased working

Search for doctoral schools accredited in Hungary


select an institution

Eötvös Loránd University, Budapest


search

reset

doctoral schools of Eötvös Loránd University, Budapest

export  Results: 16 Visible: 1-16

name of doctoral school ▼ ▲	research field ▼ ▲
Doctoral School of Education	teaching
Doctoral School of Biology	biology
Doctoral School of Chemistry	chemistry
Doctoral School of Earth Sciences	earth sciences
Doctoral School of Environmental Sciences	environmental sciences
Doctoral School of History	history
Doctoral School of Informatics	computer sciences
Doctoral School of Law	law
Doctoral School of Linguistics	linguistics
Doctoral School of Literary Studies	literature
Doctoral School of Mathematics	mathematics and computing
Doctoral School of Philosophy	philosophy
Doctoral School of Physics	physics
Doctoral School of Political Science	political sciences
Doctoral School of Psychology	psychology
PhD (doctoral) School of Sociology	sociology

export  Results: 16 Visible: 1-16

History of the doctoral education in Hungary

Reconsideration of the law in 2002 to 2007 (continued):

Hungarian Accreditation Committee:

- Accreditation of all procedures related to Hungarian higher education
- For doctoral programs it considers
 - doctoral schools
 - their programs
 - core members
 - supervisors
- Uses the Hungarian Doctoral Database (HDD)

Since 2009, accreditation is continuous, and adequacy of the data are checked yearly in HDD.

History of the doctoral education in Hungary

Structure of the doctoral school:

- Permanent members (at least 7)
 - Four of them must be full professors of the given institution
 - Must show active research (publications are checked)
 - Must have own graduate student regularly
- Supervisors
- Teachers (contributing to the program)

History of the doctoral education in Hungary

Financing:

- Students get a 3-year fellowship
- University gets per-capita support
- Fellowships are distributed among universities by the Hungarian Doctoral Council
 - Democratic, not according quality

Number of state financed PhD scholarships in 2016

	“hard sciences”	“soft sciences”	All
In Hungary (19 institutions)	860	410	1270
ELTE	102 (8%)	123 (30%)	225 (18%)

Accredited disciplines at ELTE

The 16 accredited disciplines are as follows

Accredited disciplines at ELTE – 2016

Liberal arts	Social sciences	Technical sciences	Natural sciences
1. Philosophy	7. Law	10. Informatics	11. Biology
2. Literature and cultural studies	8. Political science		12. Physics
3. Psychology	9. Social science		13. Environmental science
4. Linguistics			14. Chemistry
5. Education			15. Geosciences
6. History			16. Mathematics

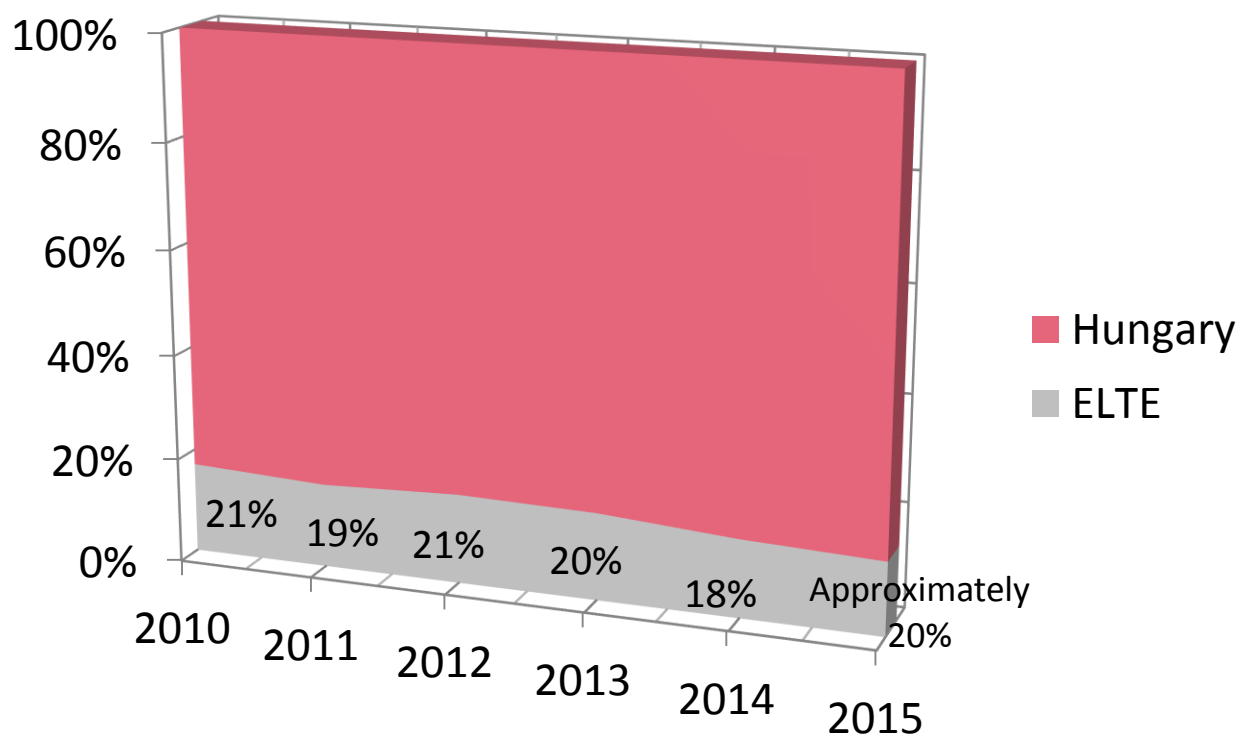




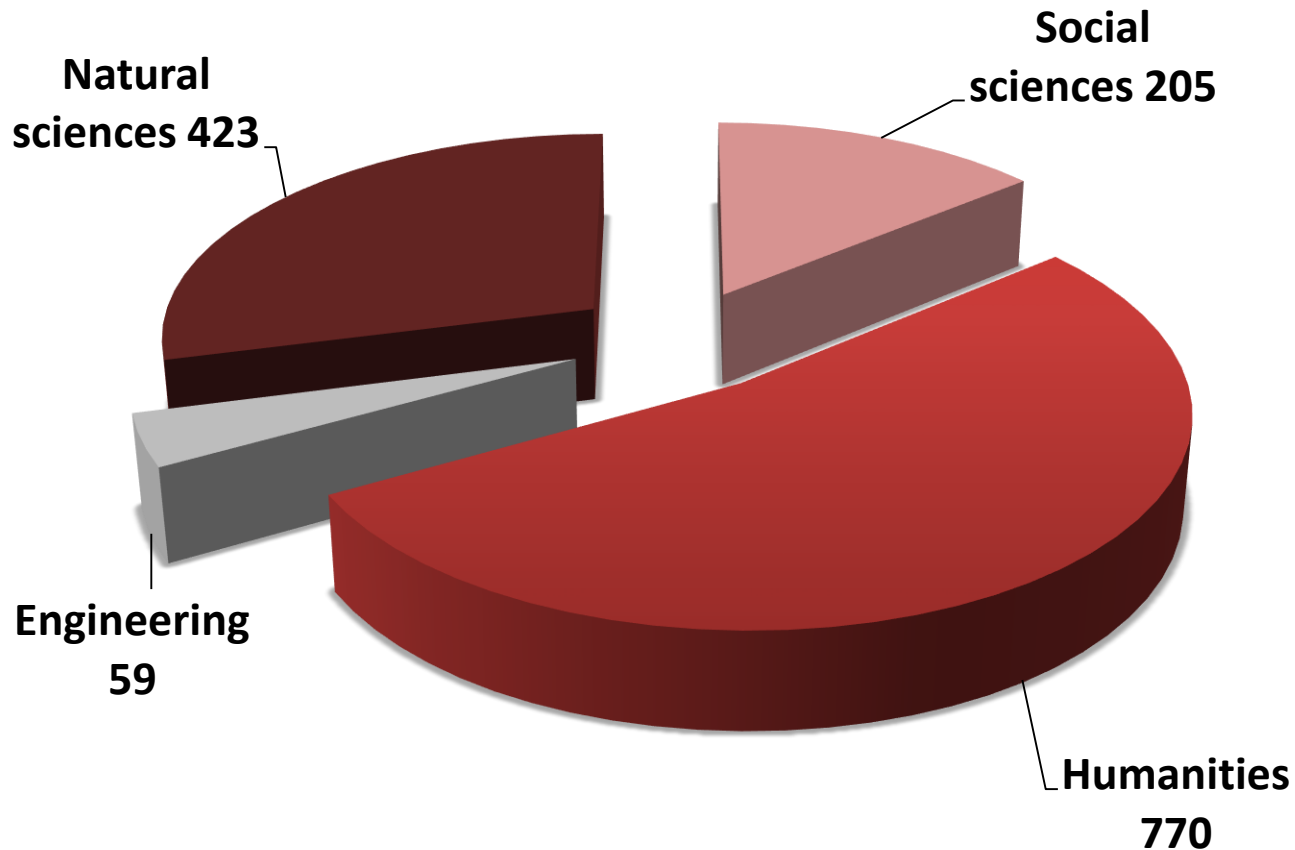
Awarded doctoral degrees

Awarded doctoral degrees at ELTE and in Hungary

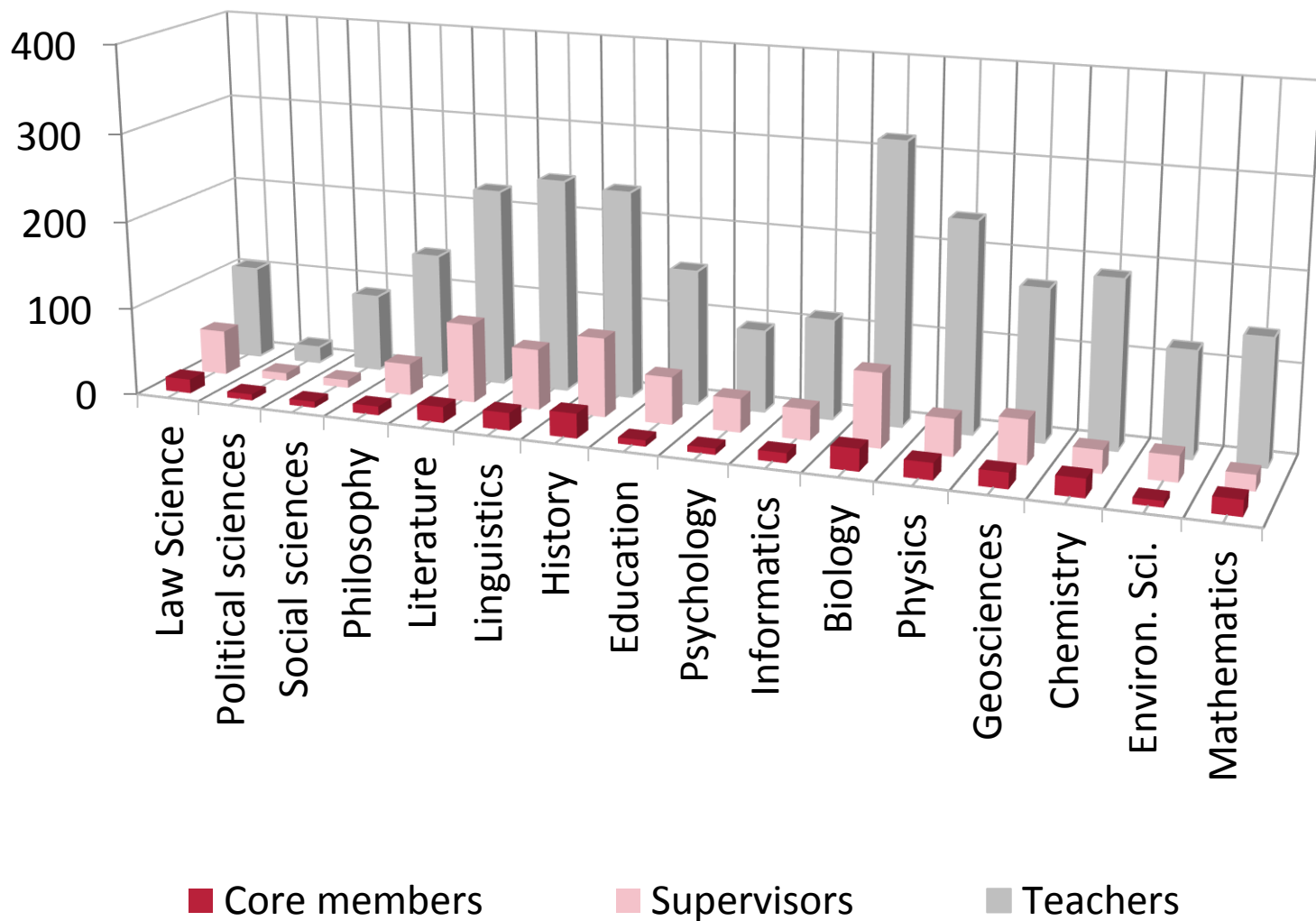
As the percentages show, ELTE gives 1/5 of the awarded doctoral degrees in Hungary



Break up of the 1457 active PhD students of ELTE along science branches

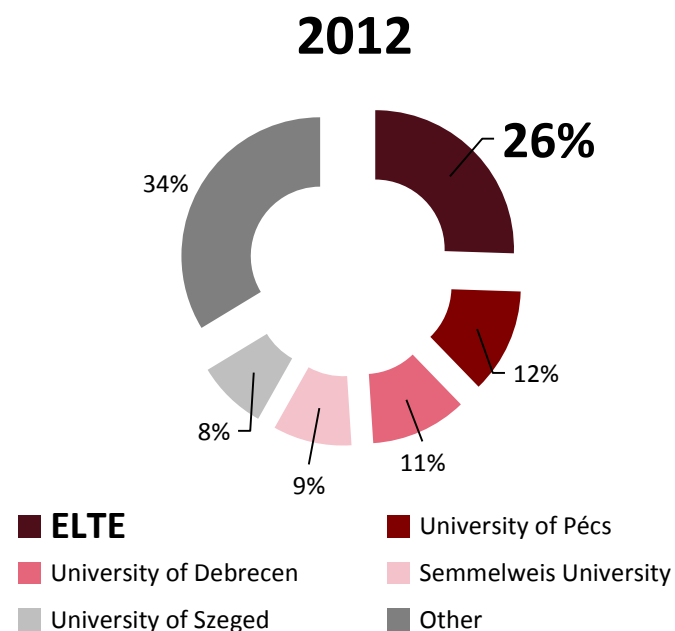
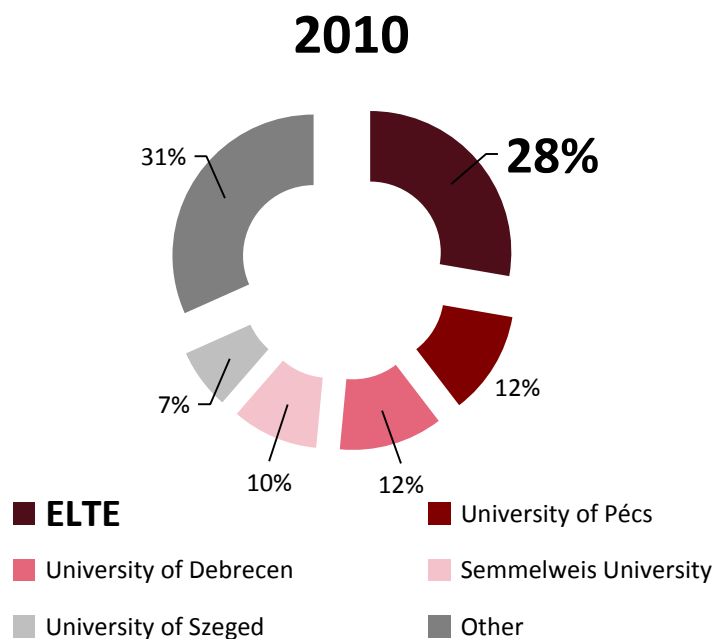


Distribution of academic staff members



Leading role of ELTE

Five universities give about 2/3 of all awarded degrees in Hungary



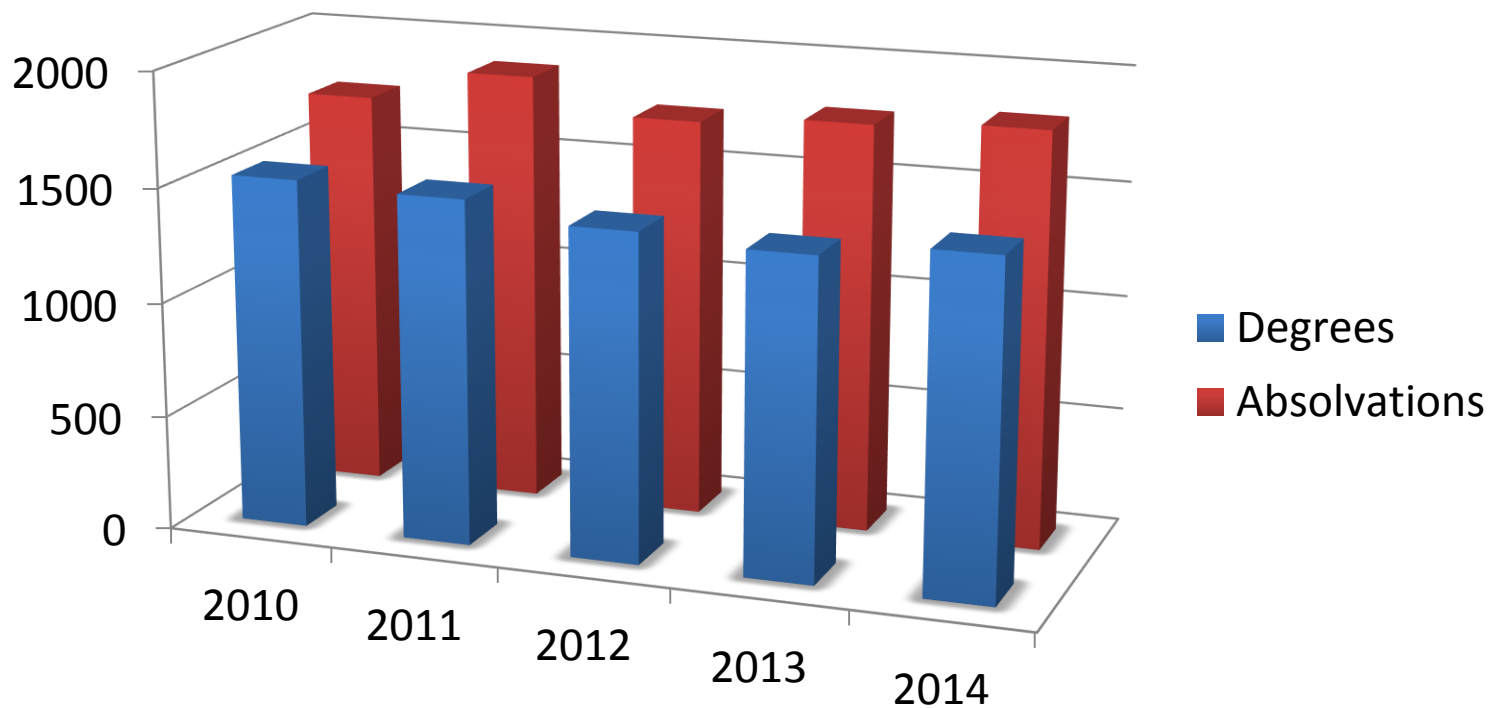
ELTE gives **26-28%** of the awarded degrees in Hungary

History of the doctoral education in Hungary

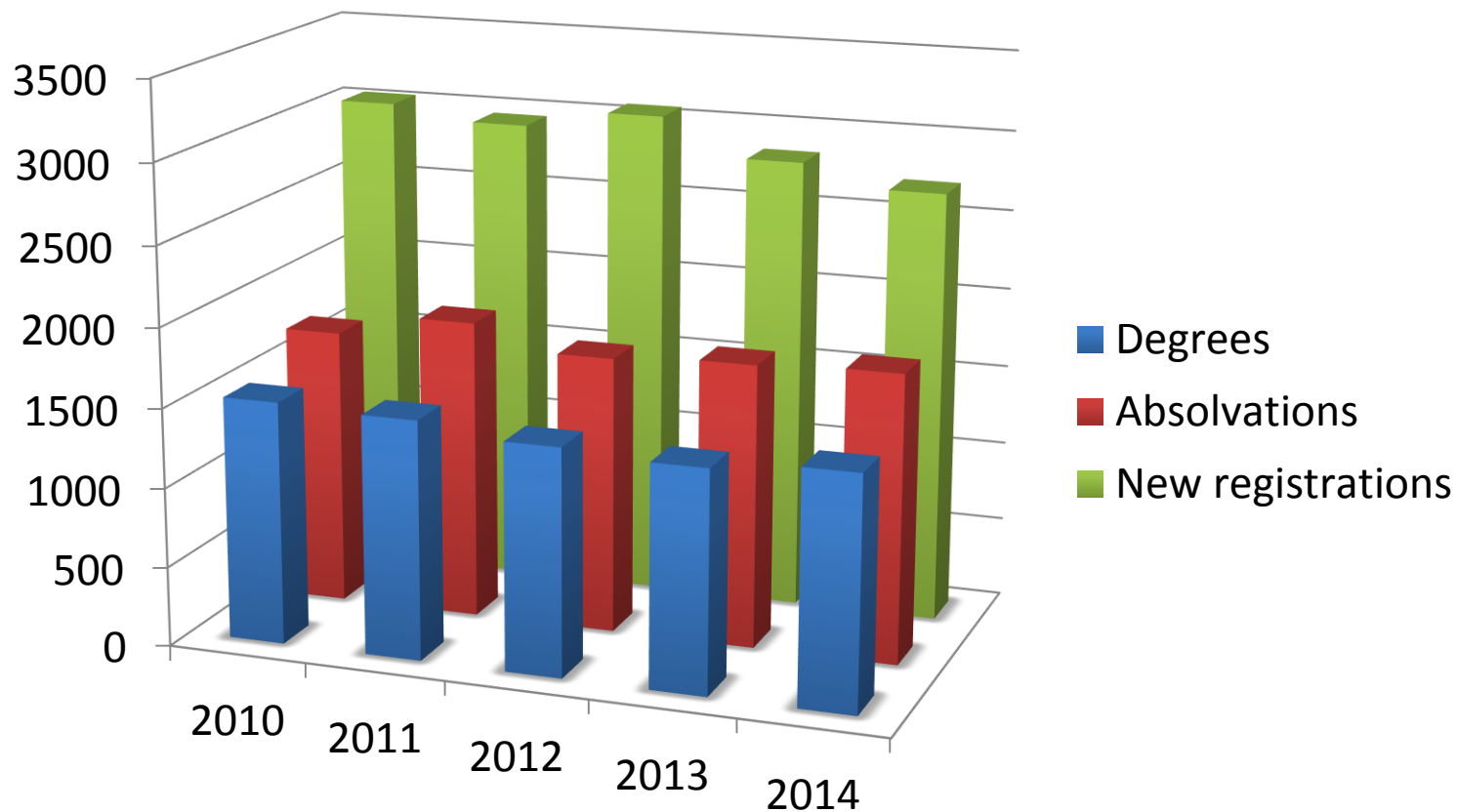
Problems accumulated by 2015:

- deflation of the fellowship
- low graduation rate
- quality decreasing (good students are going abroad)
- per-capita support became essential part of the budget of the universities -> no research money at the groups
- high percentage of not awarded degrees

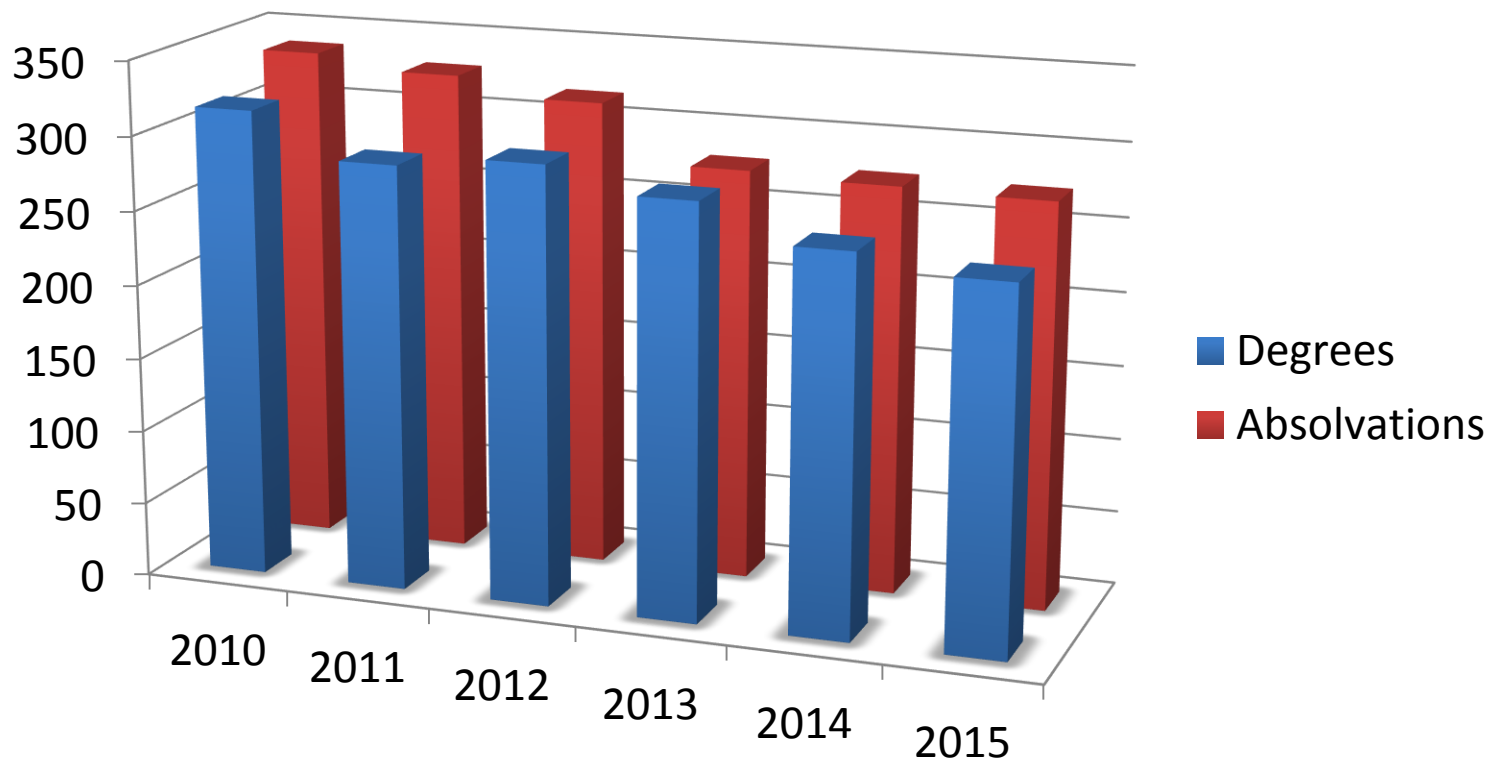
Number of absolutions and awarded degrees in Hungary



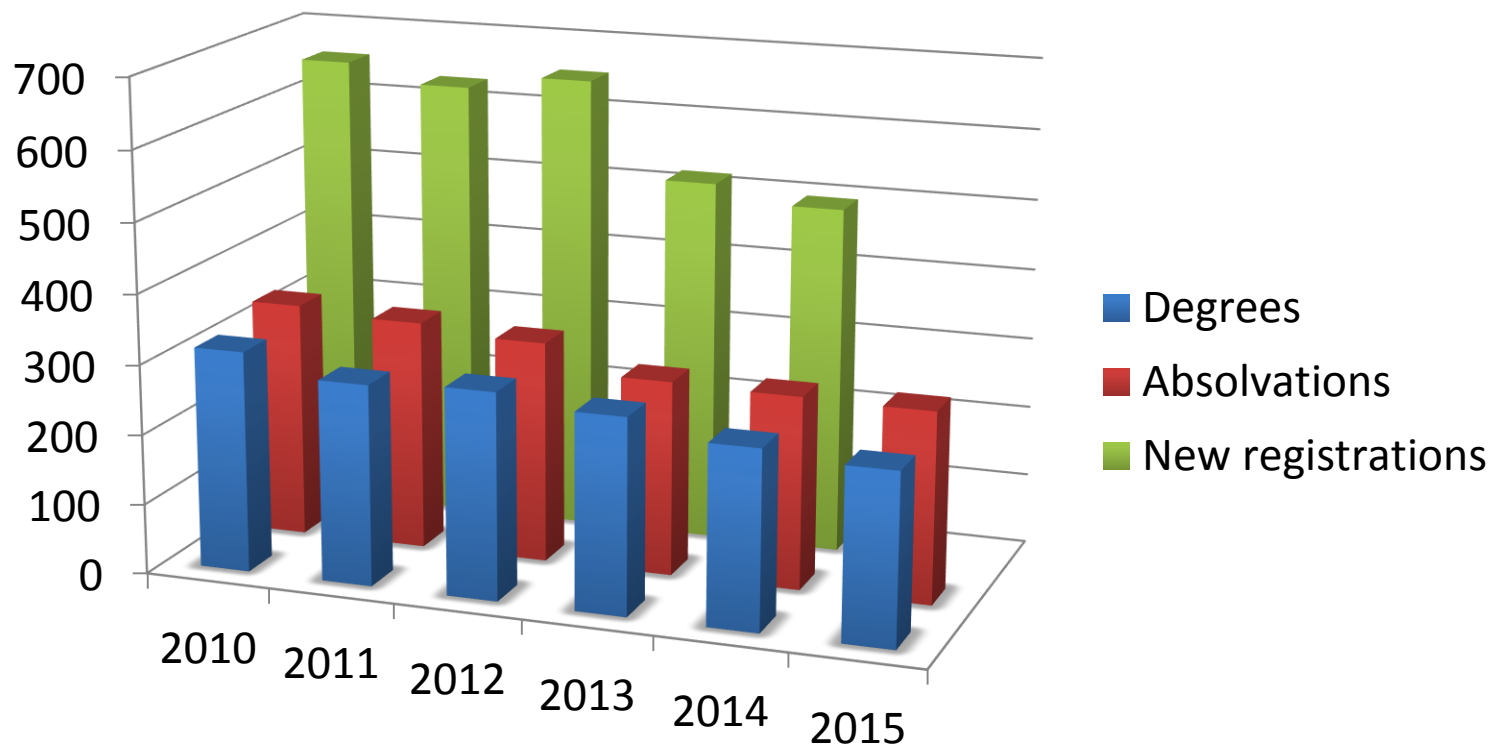
Number of absolutions and awarded degrees in Hungary



Number of absolutions and awarded degrees at ELTE



Number of absolutions and awarded degrees at ELTE



New law in 2016

Most important changes

- Study time: four years instead of three
- Two stages
 - first two years more educational
 - last two just research and writing dissertation
- More emphasis on research
- “Complex examination” after two years
- Penalty (for university) in case of not finishing in time
- Reward (for the student) in case of successful completion
- Increased fellowship (two levels)

New National Talent Program



Fellowship for talented students to do research

- 500 BSc and MSc student
- 661 PhD students

The fellowship includes

- Substantial monthly allowance
- Research money

Eötvös University can offer:

- cca. 60-70 BSc and MSc fellowships
- cca. 200 PhD fellowships



Further information available from:

Science Policy Office, Rector's Cabinet
Eötvös Loránd University (ELTE)

Facebook

www.facebook.com/elteinternational

Web

www.elte.hu/en

E-mail

tudrh@elte.hu

Address

H-1056 Budapest,

Szerb str. 21-23

Phone

+36 1 411 6500

