



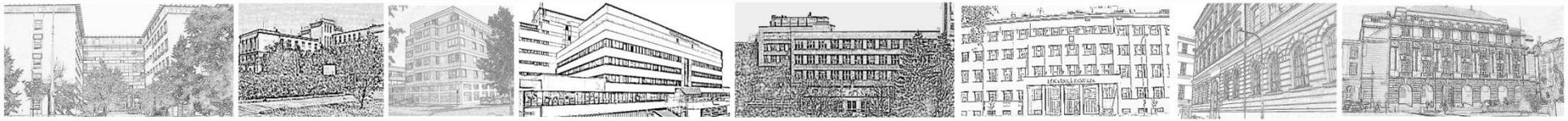
Charles University in Prague





About the University

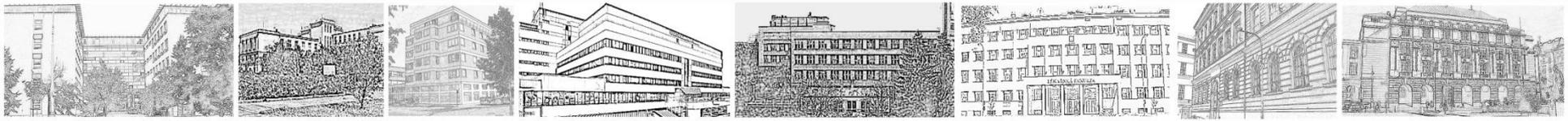
- Charles University was founded by Charles IV in **1348**
- It is the oldest university in Central Europe
- It is comprehensive in scope, offering more than **300 accredited degree** programs
- It is the best-performing research institution in the Czech Republic
- It has the most students of any Czech university





About the University

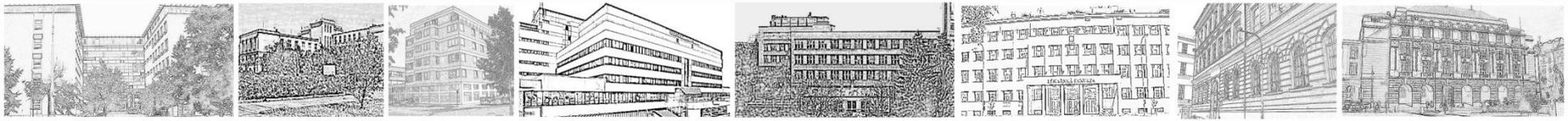
- It is the largest and, according to international rankings, most highly rated Czech university
 - **17** faculties (14 in Prague, 2 in Hradec Králové and 1 in Pilsen), 3 institutes, and 6 other centers of teaching and research
 - **8,074** employees
 - **4,653** of those are academic and research staff
 - Over **51,438** students
 - More than **300** accredited degree programs





Faculties

- Catholic Theological Faculty
- Protestant Theological Faculty
- Hussite Theological Faculty
- Faculty of Law
- First Faculty of Medicine
- Second Faculty of Medicine
- Third Faculty of Medicine
- Faculty of Medicine in Pilsen
- Faculty of Medicine in Hradec Králové
- Faculty of Pharmacy in Hradec Králové
- Faculty of Arts
- Faculty of Science
- Faculty of Mathematics and Physics
- Faculty of Education
- Faculty of Social Sciences
- Faculty of Physical Education and Sport
- Faculty of Humanities





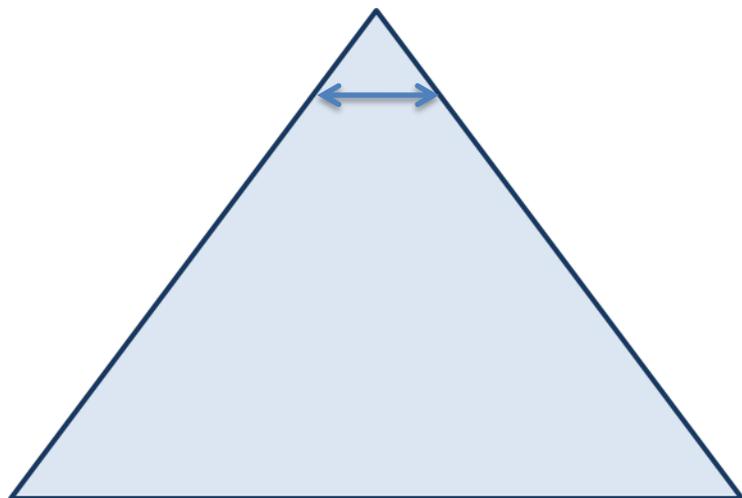
Fields of study

- Over **170** accredited Bachelor's and Master's degree programs (550 fields of study) including:
 - over 50 **Bachelor's degree** programs (over 190 fields of study)
 - over 50 **Master's degree** programs (200 fields of study)
 - long-cycle **Master's programs** – Catholic Theology, General Medicine, Dentistry, Pharmacy, Law and Legal Science, Primary Education and Psychology
- **250** accredited **Ph.D. programs** (180 fields of study)





World University Rankings



Charles University ranked in the top 2% of the approximately 18,000 institutions of higher education

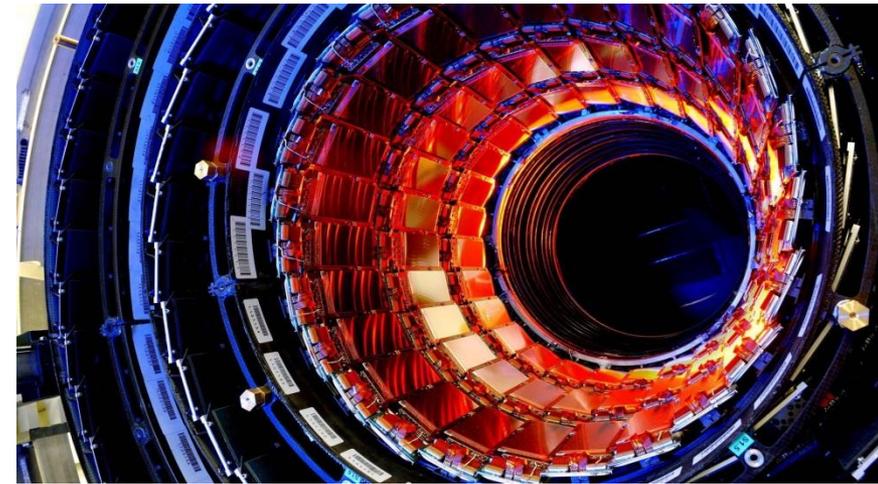
University	QS	ARWU	THE	BGU	TR
Charles University	244	272	330	179	190





Internationalization

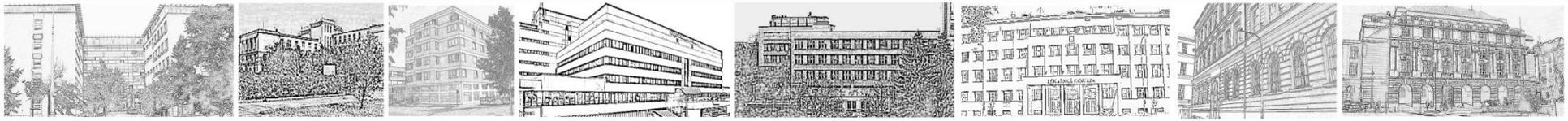
- Internationalization is one of keys to CU's success
- High levels of involvement by research staff and students in international projects, including mobility schemes
- Participation in major international research projects (e.g. CERN)
- Support for the University's world-class research teams
- Increased range of courses offered in foreign languages (English)
- Collaboration with renowned universities from all over the world





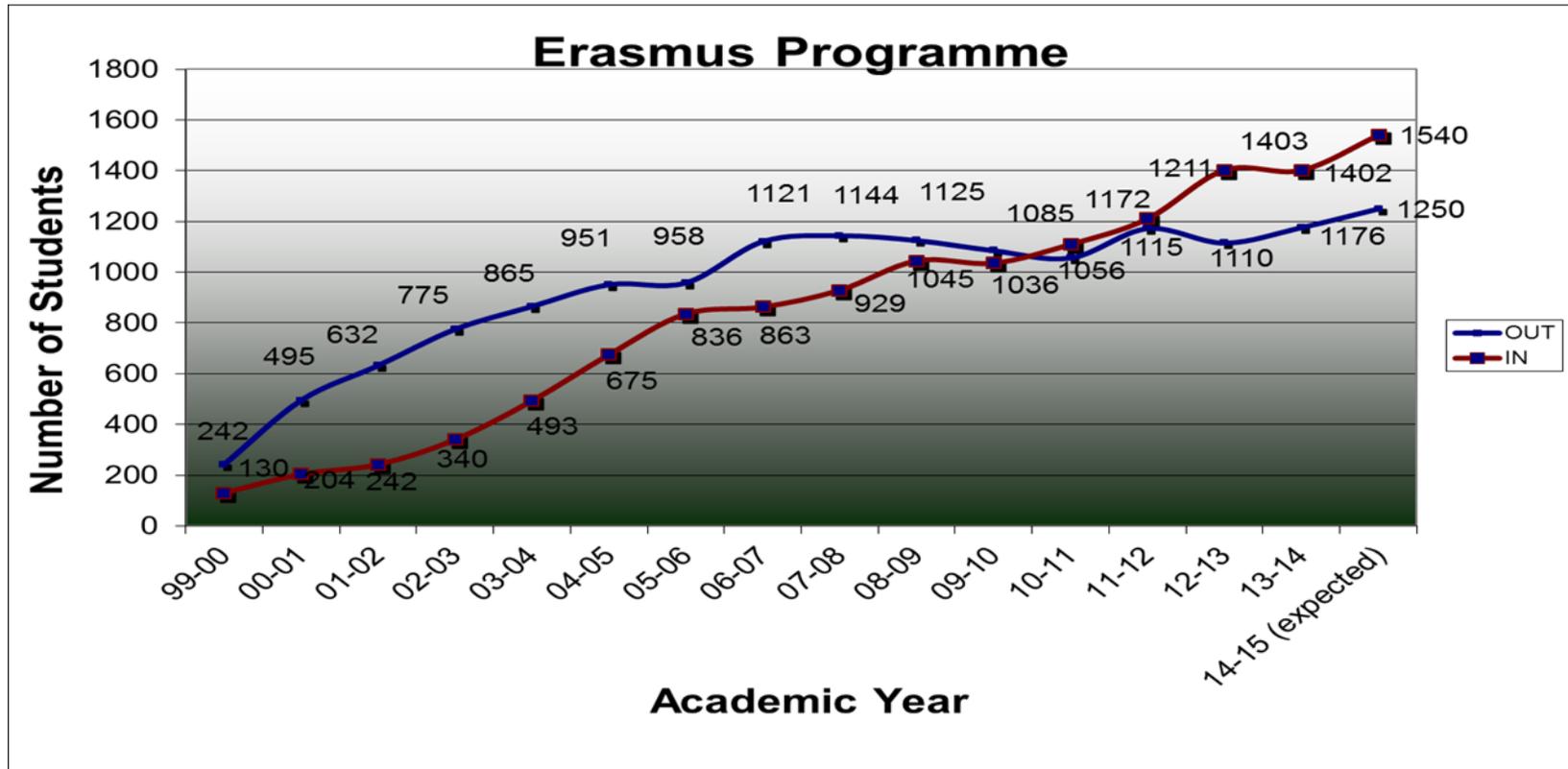
Erasmus Program

- Erasmus is the most important program for student exchanges
- In 2010/2011, CU reached a balance of inward-outward mobility; nowadays, it is a significant receiving institution, hosting more than **1,400** and sending slightly less than **1,200** students/year
- The number of outgoing students puts CU in **11th** place in Europe; in terms of incoming students, it places **8th**



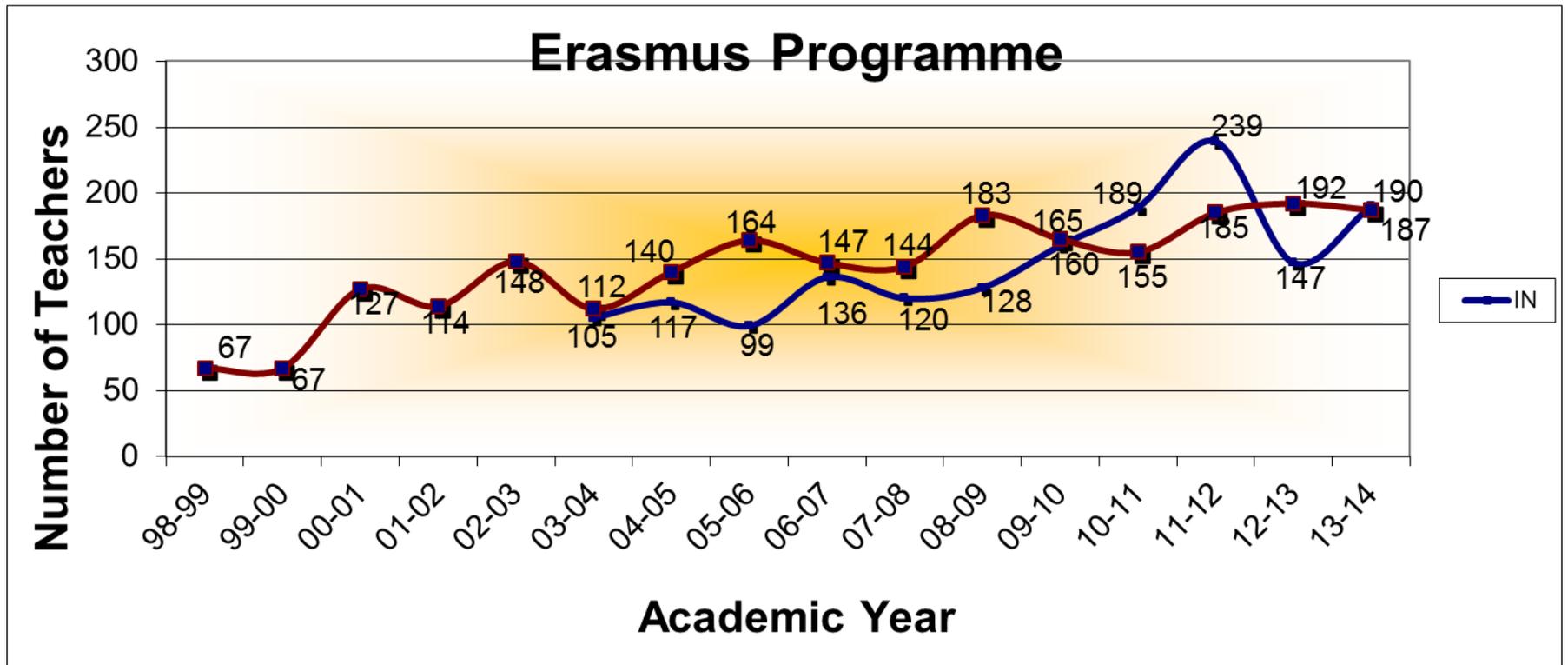


Number of Erasmus students





Number of Erasmus staff





Cooperation with French institutions

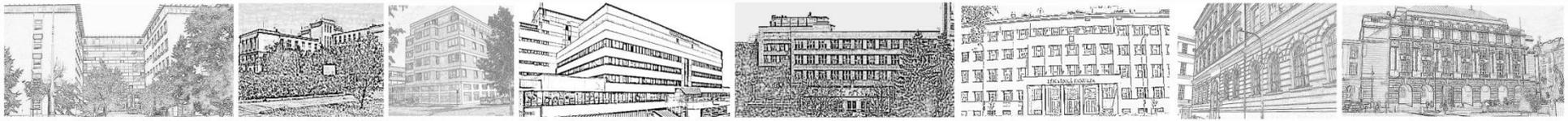
- **85** inter-institutional **agreements** for **Erasmus+ program**

Academic Year 2014 /2015:

- **135** students of CU studying at French universities (**43** of them in Paris)
- **218** students from French universities studying at Charles University

Most active faculties:

- Faculty of Arts
- Faculty of Social Sciences
- Faculty of Law

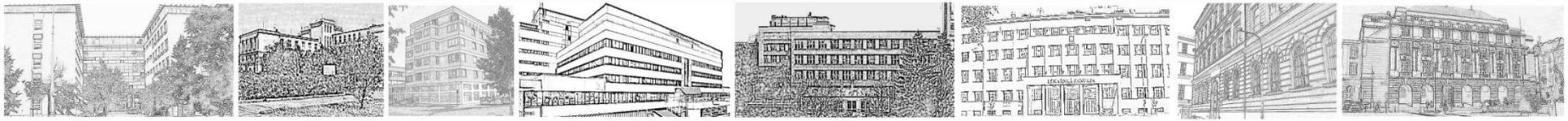




Inter-University Cooperation

Students are exempt from the obligation of paying tuition-fees

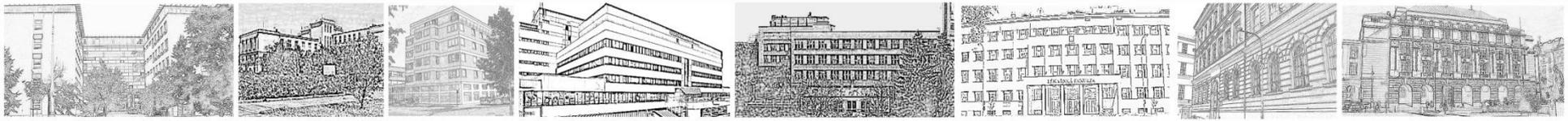
- With 27 universities from France
- For the academic year 2015/2016 calls:
 - L'Ecole des hautes études en sciences sociales, Paris
 - Université Paul-Valéry Montpellier 3





Science at Charles University

- Top-performing science institution among Czech universities
- Close cooperation with the Czech Academy of Sciences
- Long-term cooperation with CERN
- Large number of significant science success stories
- Currently CU participates in 72 projects funded by the EU's Seventh Framework Program

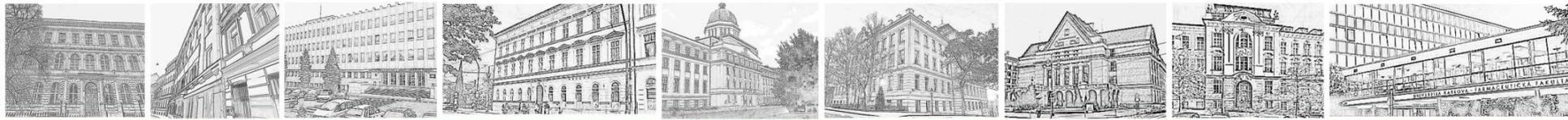




Leading Science at Charles University

- Research of cardiovascular diseases
- Clinical and experimental surgery
- Research of metabolism
- Experimental and clinical research into oncology
- Rare hereditary diseases
- Research of neurology





Leading Science at Charles University

- **Eukaryotic microbiology (Faculty of Science)**
Development of yeast colonies as a model of organized multicellular structures
- **Biological research of African ecosystems (Faculty of Science)**
Focused on evolutionary and ecological aspects of subtropical and tropical ecosystems
- **Research in physical and organic chemistry (Faculty of Science)**
Focused on studying the elementary steps of organic and organometallic reactions using mass spectrometry





Leading Science at Charles University

- **OptoSpintronics (Faculty of Mathematics and Physics)**

Spintronics uses magnetic moment – spin

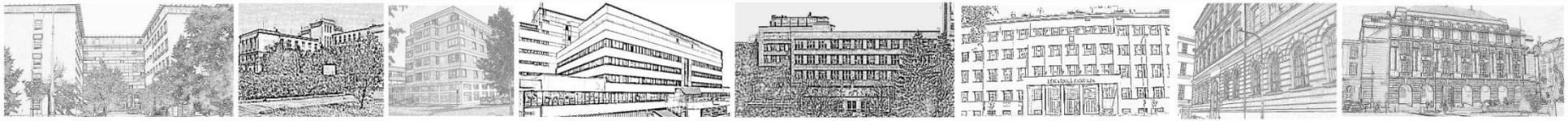
- **Particle and nuclear physics (Faculty of Mathematics and Physics)**

Projects focus on experimental and theoretical research into elementary particles

- **Mathematical simulation and methods for discerning calculation (Faculty of Mathematics and Physics)**

Team covers all phases of the mathematical simulation process at the highest level

$$\frac{\partial}{\partial a} \ln f_{a, \sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a, \sigma^2}(\xi_1) = \frac{1}{\sqrt{2\pi\sigma}} \exp\left(-\frac{(\xi_1 - a)^2}{2\sigma^2}\right)$$
$$\int_{\mathbb{R}_n} T(x) \cdot \frac{\partial}{\partial \theta} f(x, \theta) dx = M \left(T(\xi) \cdot \frac{\partial}{\partial \theta} \ln L(\xi, \theta) \right) \int_{\mathbb{R}_n} \frac{\partial}{\partial \theta} f(x, \theta) dx$$
$$\int_{\mathbb{R}_n} T(x) \cdot \left(\frac{\partial}{\partial \theta} \ln L(x, \theta) \right) \cdot f(x, \theta) dx = \int_{\mathbb{R}_n} T(x) \cdot \left(\frac{\partial}{\partial \theta} f(x, \theta) \right) dx$$
$$\frac{\partial}{\partial \theta} \int_{\mathbb{R}_n} T(x) f(x, \theta) dx = \int_{\mathbb{R}_n} \frac{\partial}{\partial \theta} T(x) f(x, \theta) dx$$





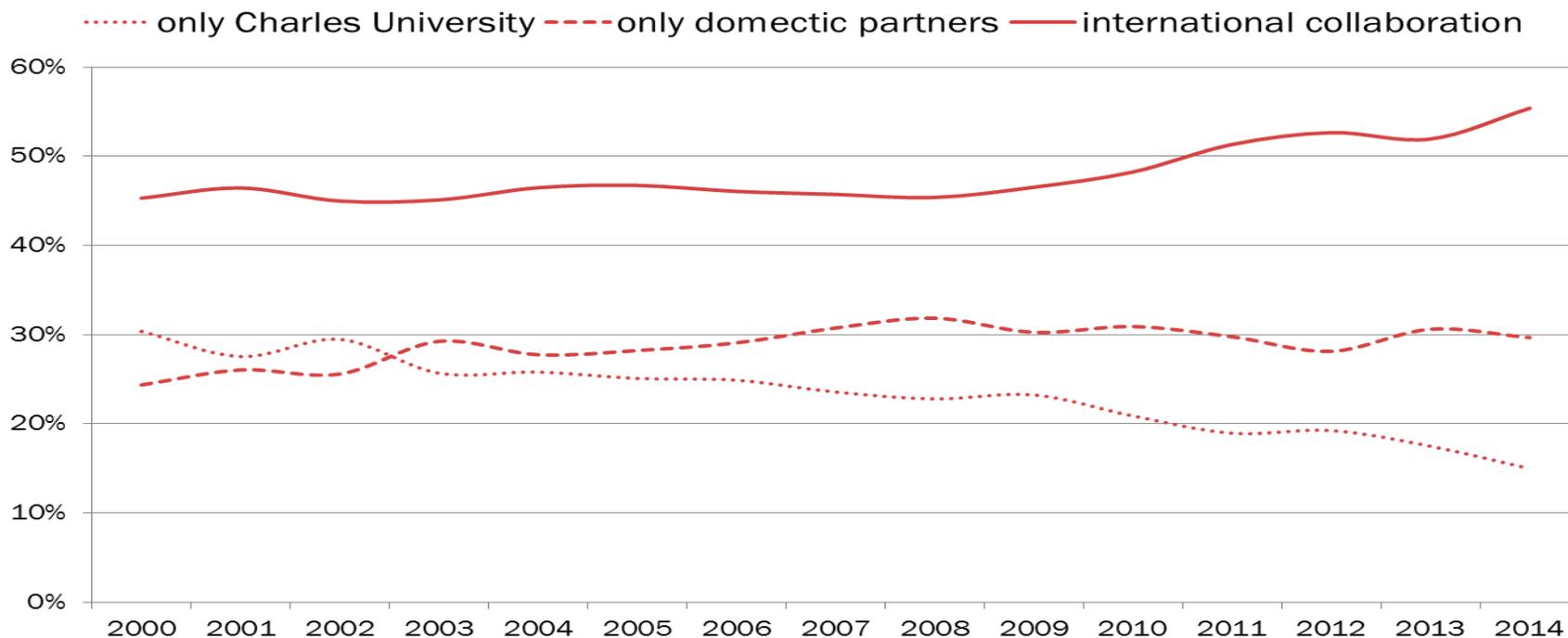
Leading Science at Charles University

- **Centre for Biblical Studies (Protestant Theological Faculty)**
Projects are oriented towards literary research into biblical texts
- **Egyptology (Faculty of Arts)**
Research in Abusir, Egypt and Sudan, more than 100 years of tradition
- **Jean Monnet Centre of Excellence (Faculty of Social Science)**



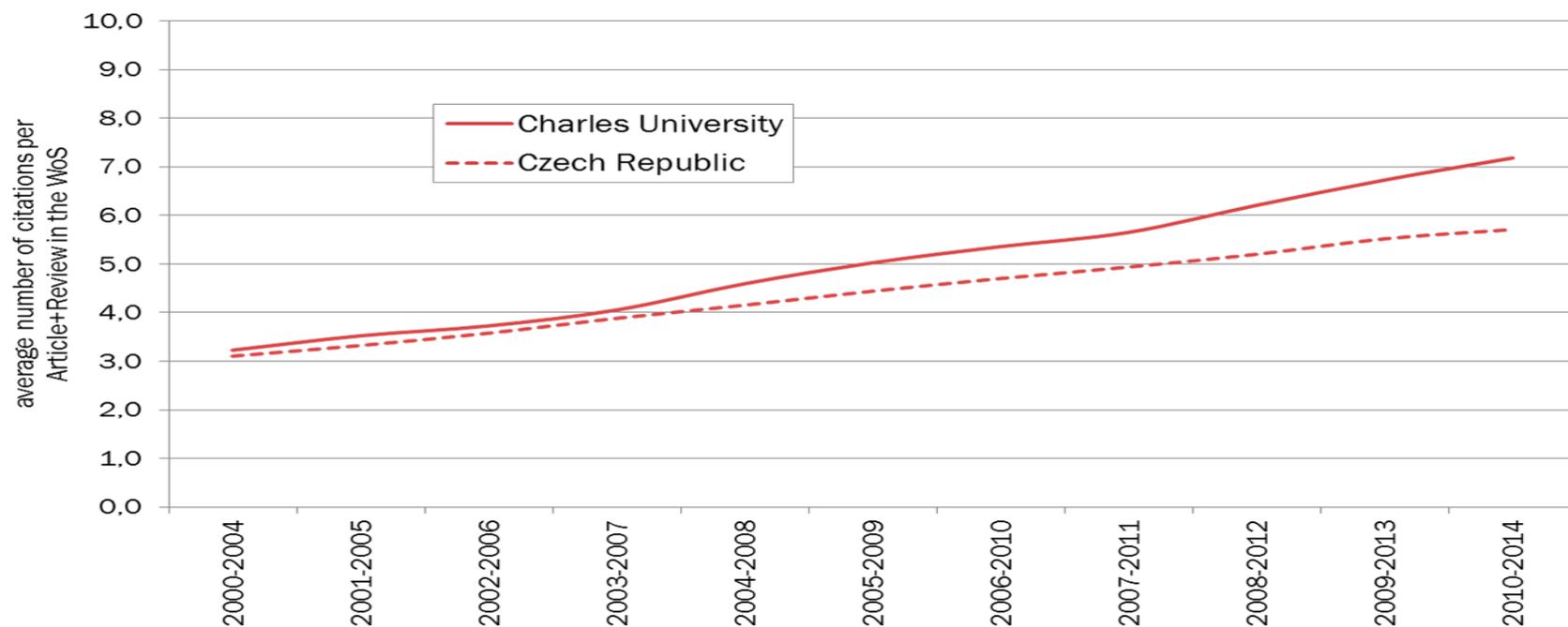


Publications of CU in Web of Science according to Forms of Cooperation



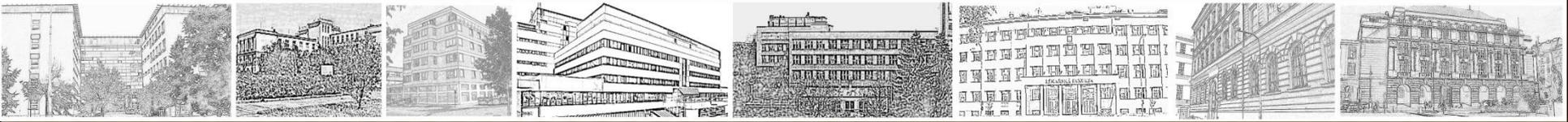


Citations of CU's Publications





CU Faculties and their cooperation with French Universities





Research cooperation at the Faculty of Social Science EU Framework programs

7th Framework Programme

- Project LIBEAC (Université Aix-Marseille)
- Project MERCURY (Sciences Po Paris)
- Project LISBOAN (Sciences Po Bordeaux)
- Project ARGOS (Thales Services SAS, Velizy Villacoublay)

Study program Europaeum (from 2013 Université Paris I Panthéon Sorbonne, Leiden Universiteit) About Europaeum:

<http://www.europaeum.org/europaeum/?q=category/1/1/6>





Faculty of Social Science

- The Faculty offers **two honors programs**, which are based on close cooperation with the French scientific institutions. IMS (since 2001, Science Po Paris, Université Paris I, Panthéon Sorbonne, IEP de Paris CEFRES)
- **Double degree** „Corporate Strategy and Finance in Europe“, University of Strasbourg
- **Erasmus +** there is a significant cooperation with France Universities, for example: Sciences Po Bordeaux, Sciences Po Grenoble, Université de Savoie (IUT Annecy), Université Catholique de Lille, Université Lumiere Lyon 2, Université (Paris 3) - Sorbonne Nouvelle, etc.





Faculty of Social Science



French Awards

Doc. PhDr. Lenka Rovníá, CSc.: Chevalier de L'Ordre National du Mérite. French President Jacques Chirac appointed her the Knight of the Order of Merit (2004)

Prof. Ing. Lubomir Mlčoch , PhD.: Officer in the Order of Academic Palms, France (2003)

Prof. Dr. Miloslav Petrusek , PhD.: Knight of the Order of Academic Palms, France (2003)





Faculty of Arts

FF UK cooperates with various French institutions on different levels

Erasmus Intensive program

- **ERA-IP-2013-05:** Staging European Identities - Memory, Conflict and Commerce in Early Modern European Culture
Participants: CZ: FA CU Department of Anglophone Literatures & Cultures
FR: University of Montpellier
- **Optimal**
CZ partner is ÚTRL
FR multiple partners - <http://www.translator-training.eu/partners> - Rennes, Sorbonne, Haute-Alsace, Aix-Marseille)





Faculty of Arts

FP7 and Horizon 2020

- **Marie Skłodowska-Curie Actions RTN project Sound to Sense (S2S): making sense of speech sounds (<http://www.sound2sense.eu/>) (MC-RTN)**

Partners: CZ: CU FA Institute of Phonetics, FR: University of Provence,

- **IMPACT: (FP7, ICT: Digital Libraries and Content) <http://www.impact-project.eu/about-the-project/partner-information/>**

CZ partner: CU FA Institute of the Czech National Corpus

FR partner: Bibliothèque Nationale de France





Faculty of Humanities

- **Partner universities Erasmus+:** Institut d' Études Politiques de Lyon, Université de Bourgogne, Université de Paris X Nanterre Ouest, Université de Poitiers, Université de Toulouse II - Le Mirail / Jean Jaurès, Université de Versailles Saint-Quentin-en-Yvelines, and others.
- **Erasmus Mundus:** German and French Philosophy in Europe (EuroPhilosophie), 2007 - 2016. This program implements a consortium of cooperating teams of universities: Université Toulouse Jean Jaurès (Coordinating University), Bonn, Coimbra, Louvain-la-Neuve, Memphis, Sao Carlos, Tokyo and Wuppertal and the Department of German and French Philosophy, UK Prague.





Protestant Theological Faculty

- **Jan Dušek** (Docteur de l'Ecole Pratique des Hautes Etudes), researcher into the Hebrew Bible and the North-West Semitic epigraphy, with specialization to Aramaic inscriptions of the 1st millennium BCE, is foreign member ("associé étranger") of the **research unit UMR 7192 "Proche-Orient - Caucase: langues, archéologie, culture," Collège de France, Paris.**



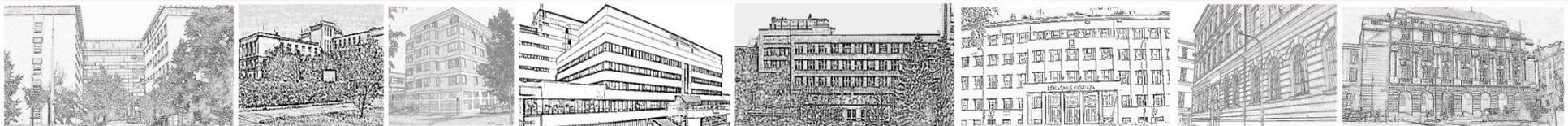


Catholic Theological Faculty

The Catholic Theological Faculty (KTF) was the founding faculty of today's Charles University in Prague (1348), and is one of the oldest theological faculties in Europe.

Cooperation with French theology

- Developing cooperation with the Collège des Bernardins
- Faculty Erasmus has a contract with Toulouse (L' Institut catholique)
- Cooperation within the Revue catholique internationale Communio





Faculty of Education

COLLABORATION IN 6 EU PROJECTS

- Enhancing Literacy Development in European Languages
- European Development for the Use of Mathematics Technology in Classrooms
- Multiculturalism, Migration, Mathematics Education and Language
- Le-MATH: Learning Mathematics through new Communication Factors
- Module Européen d'accompagnement des étudiants pour la construction de leur personne
- ELitNet: European Policy Network of Literacy Organisations

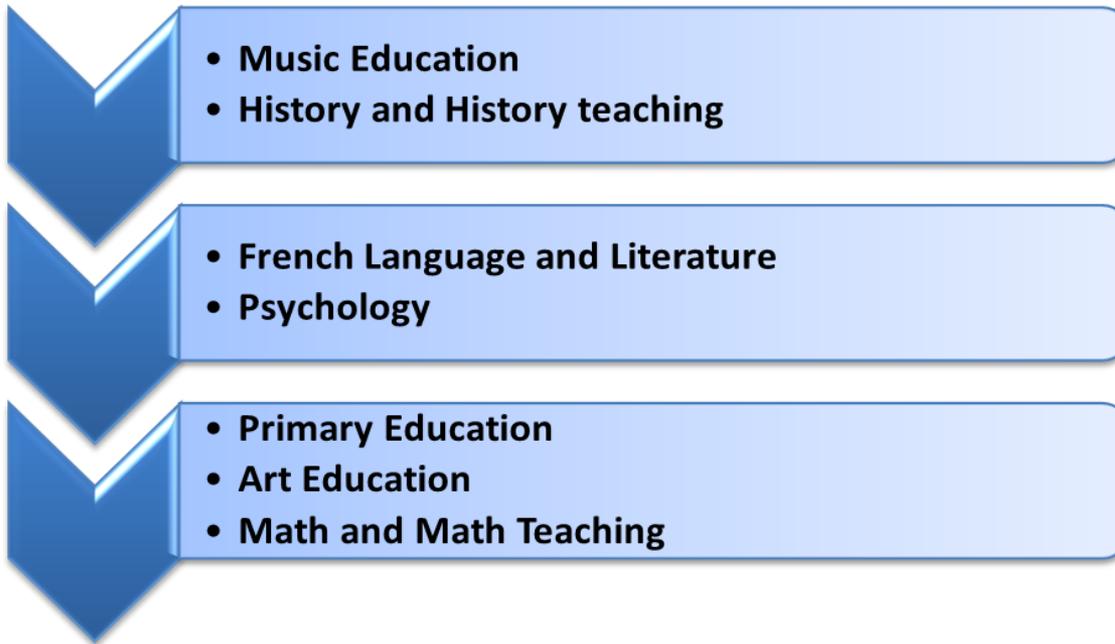
ERASMUS+: 20 bilateral agreements, 15 universities in France





Faculty of Education

Collaborating Departments of the Faculty of Education





Faculty of Mathematics and Physics

FMP currently cooperates with Université de Strasbourg (in nuclear physics), Université de Nantes (branch of geophysics), Université Paris- Diderot (branch of discrete models and algorithms), Université Pierre et Marie Curie and others

FMP

- Is member of the **Institut Laue - Langevin** in Grenoble, through its projects in the MENI,
- It uses the European Synchrotron Radiation Facility, Grenoble,
- It cooperates with Observatoire de le Cote d' Azur (Astronomical Institute staff MFF),
- Geophysicists cooperate with the University of Nantes





Faculty of Mathematics and Physics

Awards

- In 2002, Prof. **Vladimir Matolín** received an honorary doctorate from the Université Blaise Pascal Clermont-Ferrand, and, in addition, was appointed the **Knight of the Order of Academic Palms** .
- In 2004, Prof. **Ivan Netuka** received the same honors from the French government.
- In 2009, Université de Bordeaux awarded an honorary doctorate to Prof. **Jaroslav Nešetřil**
- Prof. **Jan Nekovář**, who has been working at Université Paris VI since 2002 (since 2010 as a professor exc. class) still maintains professional contacts with his alma mater (number theory)





Faculty of Science

- Support of PhD students and young researchers
- *Cotutelle* agreements with:
 - Université d'Aix-Marseille
 - Université de Strasbourg
 - Université Montpellier 2
 - Université Bordeaux 1
 - Université I, Panthéon-Sorbonne
- **Prof. Jean-Marie Lehn** (Université de Strasbourg), Nobel Prize winner, awarded under the auspices of the French Embassy





Faculty of Science

Cooperation with:

- Institute de Physique du Globe de Paris (prof. Claude Jaupart, doc. RNDr. Vojtěch Ettler, Ph.D.)
- IBRA „Biochemistry and Plant Molecular Physiology“, Montpellier (zdoc. RND. V. Žárský)
- Laboratoire de Chimie de Coordination – CNRS UPR Toulouse (prof. RNDr Petr Štěpnička, CSc)





1st Faculty of Medicine

Major cooperation:

Fondation Jean Dausset - Centre D'Étude du polymorphisme humain, Paris, France

Other partners and cooperating institutions:

- University of Strasbourg - France
- Ecole nationale supérieure, Lyon – France
- European Genomic Institute for Diabetes, Lille - France

Erasmus+

Université de Picardie Jules Verne, Université Victor Segalen Bordeaux 2, Université Joseph Fourier (Grenoble 1), Université de Claude Bernard Lyon 1, University of the Mediterranean, Université Montpellier I, Université Paris 7 - Denis Diderot, Université Paris - Est Créteil Val de Marne, Université Louis Pasteur Strasbourg





1st Faculty of Medicine

Cooperation in the field of research/ 1st FM as a coordinator of the project

Name of the project	Registration number	Investigator	Coordinator of the project
Cancer Genomics of the Kidney (CAGEKID)	HEALTH-F4-2010-241669	MUDr. Ivana Holcátová, CSc.	Fondation Jean Dausset Centre Detude du polymorphisme humain fondation, Paris, France





2nd Faculty of Medicine

Research cooperation

- The University of Brest
- The University of Toulouse
- Descartes University - Necker-Enfants Malades Hospital, Paris
- R. Descartes University - Necker-Enfants Malades Hospital, Paris Program

ERASMUS+: Université Montpellier 1





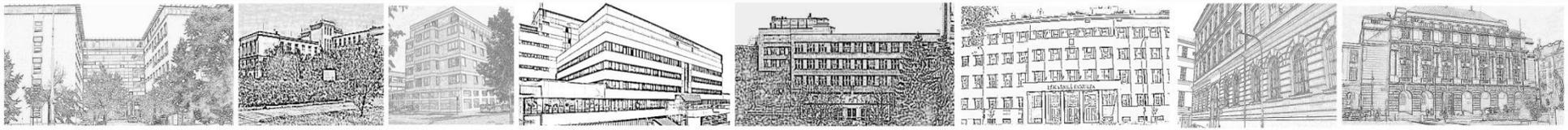
3rd Faculty of Medicine

Current Czech – French Cooperation in Research

- Joint **Franco-Czech Laboratory of Clinical Research in Obesity** based on the agreement made in 2015 between 3rd Faculty of Medicine, Charles University in Prague and Institute of Metabolic and cardiovascular diseases, University Toulouse III, Paul, UMR 1048, in Toulouse co-directed by Professor Vladimir Stich and Professor Dominique Langin.

Appreciation et honour:

- **Prof. MUDr. Richard Rokyta, DrSc.** and **Prof. MUDr. Kamil Provazník, CSc.** – laureates of French decoration “Chevalier des Palmes Academique” (deserved for progress in French cultural development)

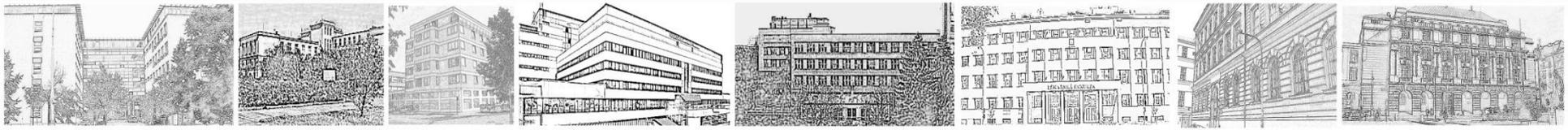




3rd Faculty of Medicine

Erasmus+

- **Université Pierre et Marie Curie Paris 6** - 2 students (incoming/outcoming) for the whole academic year
- **Université Joseph Fourier – Grenoble** - 2 students (incoming/outcoming) for the whole Academic year
- **Université Paul Sabatier - Toulouse III** - 2 students (incoming/outcoming) for 4 months





Faculty of Medicine Hradec Králové

- **Prix de Pharmacie** (the prize is followed by scientific internship at the French Universities). Winners of the competition from Faculty of Medicine Hradec Králové were:

2007 Stanislav John, MD. Department of Oncology

2008 Veronika Mikušová, MD. Department of Psychiatry

2009 Martin Štěřba, PharmDr, Department of Pharmacology

2011 Sámer Al-Dury, MD, Department of Physiology





Faculty of Medicine Hradec Králové

- Research Project, supported by the Grant Agency of the Czech Republic, **Professor Jaroslav MOKRY**, and **Professor Stanislav FILIP** (Faculty of Medicine, Hradec Kralove).
- A member of the research team is Professor **Govindan Dayanithi**, MSc, PhD (Institut National de la Santé et de la Recherche Médicale/Ecole pratique des hautes études, Sorbone and Université Montpellier (and at the same time at the Academy of Science, Prague))





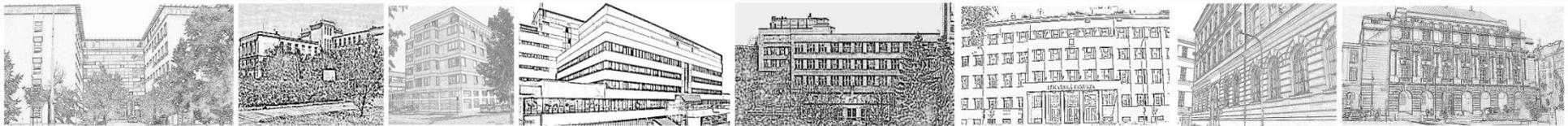
Faculty of Medicine in Pilsen

Joint Research Programs with French Universities

- **Cardiovascular medicine**

Topic: Properties of central arteries, especially in context with hypertension Czech Team, Head: Professor Jan Filipovský, UK French Team, Head: Pr Stéphane LAURENT, Hôpital Européen Georges Pompidou Université Paris Descartes

- **Main joint publication:** Reference Values for Arterial Stiffness' Collaboration. Determinants of pulse wave velocity in healthy people and in the presence of cardiovascular risk factors: "establishing normal and reference values". Eur Heart J 2010; 19: 2338-50.





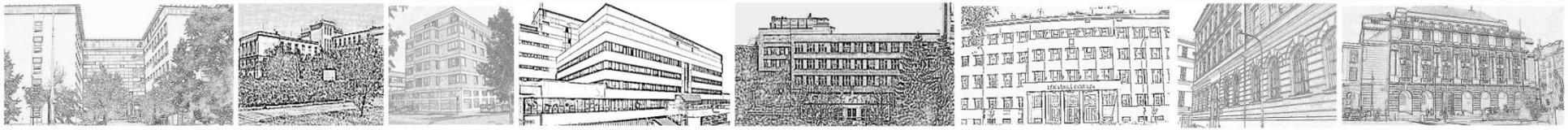
Faculty of Medicine in Pilsen

- **Neuropathophysiology**

Topic: Influence of cerebellar circuitries on emotional reactivity and special abilities. Czech Team, Head: Mgr. Jan Tůma, Institute of Pathophysiology, UK
French Team, Head: Dr Pascal Hilber, Ph.D., Université de Rouen, Laboratoire PSY.NCA

- **ERASMUS**

Université de Franche-Comté, Besançon
Université de Rouen
Université de Strasbourg





Faculty of Physical Education and Sport

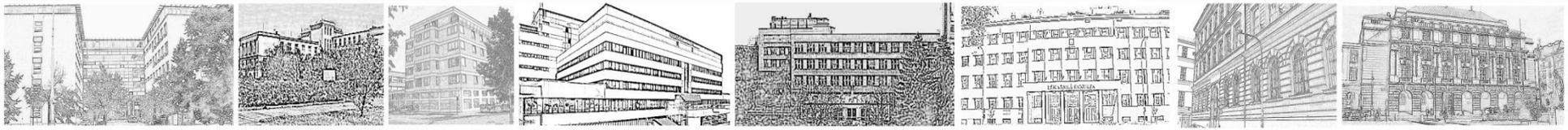
Cooperation with: Université Lille 2

- **International Master in Sports Tourism Engineering (IMISTE)**,
Master's Degree program for the area of tourism focusing on sport.
- **International Research Network in Sports Tourism (IRNIST)**, currently, both institutions are collaborating on the preparation of the project International Research Network in Sports Tourism (IRNIST)

Cooperation with: Université de Lorraine, Nancy

- **Name of the project:** L'écologie corporelle dans les activités physiques, adaptées et sportives (ECAPAS) : quelle philosophie, quelle éthique?

Time of realization: October 2015 – 2018





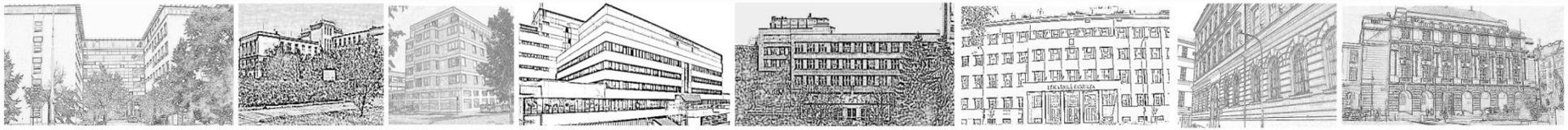
Faculty of Physical Education and Sport

- **Cooperation with: The European Network of Outdoor Sports (ENOS)**

ENOS is a French initiative with the aim to unite European outdoor sports. It was established to be an open network to all organizations involved in the development, promotion, employment and management of outdoor sports across Europe, involving both public and private bodies.

More information:

<http://www.nature-sports.eu/page.cfm?docid=pages&pageid=15>





Institute of the History of Charles University and Archive

- Since 1989 ÚDAUK actively collaborates with **Marie-Elizabeth Ducreux, French historian and Bohemist**, leading researcher in CRNS – Centre de Recherches Historiques de l'ÉHESS. In 1990–1991, she helped establish in Prague the Centre Français de Recherches au Science Sociales (**CEFRES**), which she then headed in 1991–1994.
- Since 2006, collaboration with **Olivier Chaline** (professor at the Centre d'histoire de l'Europe centrale, Université Paris IV – Sorbonne), who provides consultations and supervision of doctoral students at the Czech part of the Cotutelle.





Charles University for the public

- **Day of Life-long Learning and Festival of Graduates**
(different types of professional education, education for foreigners, speeches of graduates...)
- **Museum with exposition describing history of CU**
(premises of Carolina, the most important CU artefacts)
- **Printed magazine Forum and e-magazine iForum**
(up-to-date information on science, research and life of the University)



F O R U M

časopis Univerzity Karlovy





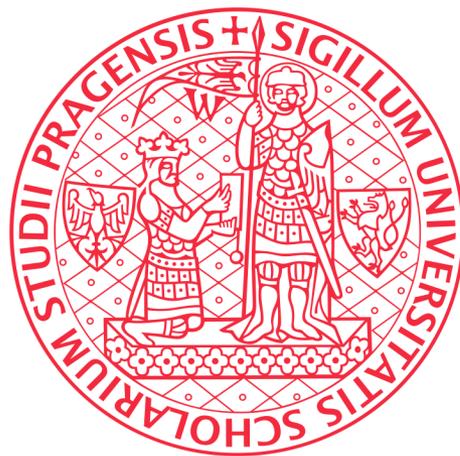
Life at Charles University

- More than **80** student clubs and associations at CU
- Possibility of a wide range of cultural and sport activities
- **20** dormitories
- More than **13,000** beds, Wi-Fi
- Dormitories in Prague, Hradec Kralove, Pilsen, Brandys nad Labem
- 15 student canteens





Thank you for your attention



www.cuni.cz

