



University of Hradec Králové  
Faculty of Informatics and Management

# Welcome Presentation

Czech Republic, city and university





- = **Founded:**
  - = October 28, 1918 (Czechoslovakia)
  - = January 1, 1993 (the Czech Republic)
- = **Population:** 10 millions
- = **Area:** 78,871 km<sup>2</sup>
- = **Capital:** Prague (1,000,000 citizens)
- = **Official language:** Czech
- = **Currency:** Czech crown
- = **Political system:** Unitary parliamentary republic
- = **Well known companies:** Brewery Plzeňský Prazdroj; Škoda Auto a.s. – the largest car manufacturer in Czechia





## University of Hradec Králové

- = Institute of Education was founded in 1959
- = In 1992 established as a university
- = 6,000 students
- = Public institution
- = ECTS (European Credit Transfer System)
- = 4 faculties
- = Dormitory for students



## Faculty of Informatics and Management

- FIM founded in 1993
- 1,600 students
- Bachelor's, Master's and Doctoral degree
- Exchange students from the whole world
- Summer school „Czech It Out“





## Management of the Faculty of Informatics and Management

**prof. Ing. Mgr. Petra Marešová, Ph.D., MBA**  
Dean



**prof. RNDr. Petra Poulová, Ph.D.**  
Vice-Dean for Strategy and Development



**prof. PhDr. Blanka Klímová, M.A., Ph.D.**  
Vice-Dean for International Relations



**Ing. Jan Mačí, Ph.D.**  
Vice-Dean for Study Affairs



**prof. Ing. Vladimír Bureš, Ph.D., MBA**  
Vice-Dean for Science and Research

**Ing. Lenka Buchtová**  
executive secretary

## Who we are

The Faculty of Informatics and Management (FIM) at the University of Hradec Králové is a **modern and dynamic educational and research** institution. We combine IT, data analytics, economics, and management, with a focus on practical skills, innovation, and **international cooperation**. Our graduates are well-prepared for successful careers and contribute to enhancing the **university's reputation** both nationally and internationally.

## Vision

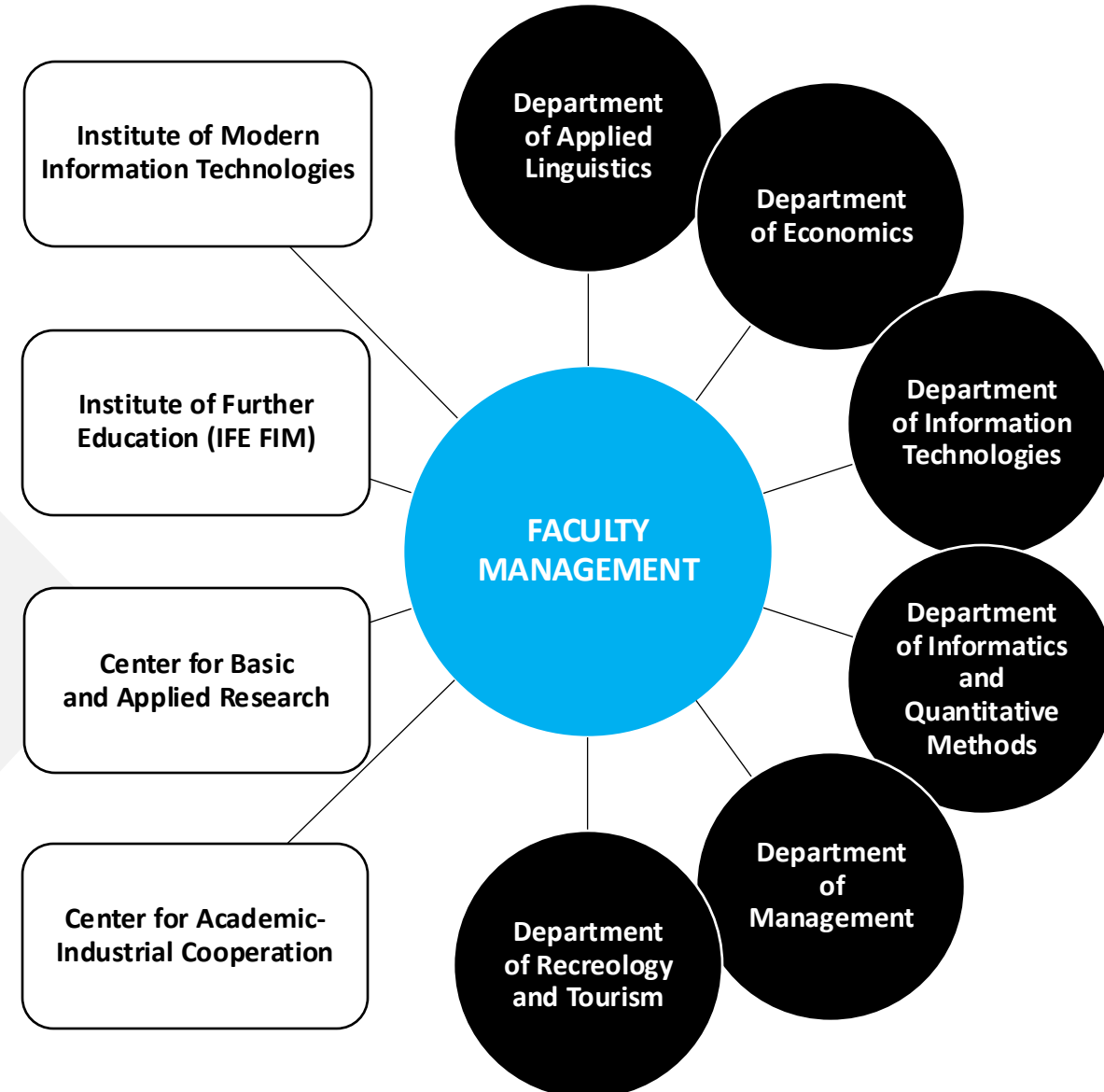
FIM aspires to be a **top choice for talented students** integrating computer science, management, and innovation. Through digital learning, interdisciplinary research, and industry partnerships, we shape the future—regionally and globally.

**Founded:** 1993

**Number of study programs:** 5 Bachelor's,  
4 Master's,  
3 PhD

**Number of students:** 1,589

**Number of staff:** 105







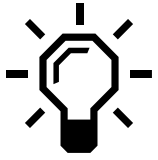
Research

UHK proves its high standard by passing strict criteria of prestigious international rankings such as QS or THE, it has also successfully qualified in a ranking devoted to sustainability and ecology – the UI Green Metric.

| UHK Rankings                      | 2024           | 2025             |
|-----------------------------------|----------------|------------------|
| <b>THE WUR</b>                    | 1201–1500      | <b>1001–1200</b> |
| THE by subject: Education Studies | N/A            | <b>601+</b>      |
| THE by subject: Computer Science  | 601–800        | <b>601–1000</b>  |
| THE by subject: Physical Science  | 1001+          | <b>801–1000</b>  |
| THE by subject: Life Sciences     | 601–800        | <b>501–600</b>   |
| THE by subject: Arts & Humanities | N/A            | <b>601+</b>      |
| THE Young Universities            | <b>351–400</b> | N/A              |
| <b>QS WUR</b>                     | 1001–1200      | <b>1001–1200</b> |
| QS EECA/Europe                    | <b>403</b>     | N/A              |
| QS Eastern Europe                 | <b>41</b>      | N/A              |
| <b>UI GREEN METRIC</b>            | <b>527</b>     | N/A              |



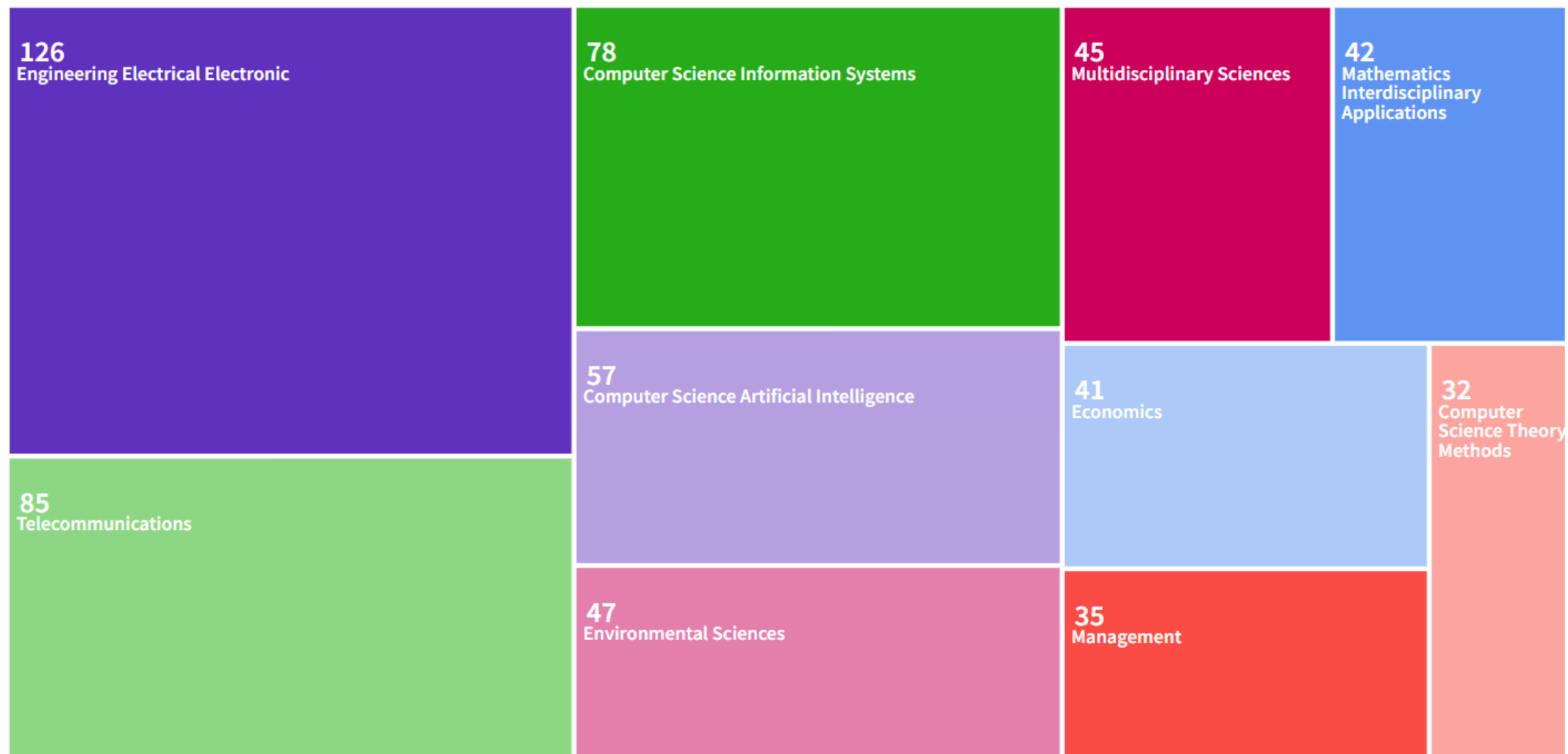


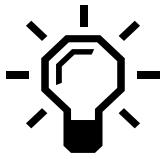


## Focus on Journals

| Year  | Web of Science |             | Scopus   |             |
|-------|----------------|-------------|----------|-------------|
|       | Journals       | Proceedings | Journals | Proceedings |
| 2019  | 61             | 52          | 57       | 60          |
| 2020  | 83             | 31          | 71       | 36          |
| 2021  | 114            | 15          | 102      | 32          |
| 2022  | 109            | 9           | 88       | 16          |
| 2023  | 109            | 9           | 116      | 16          |
| 2024  | 103            | 3           | 119      | 21          |
| 2025* | 95             | 1           | 101      | 10          |

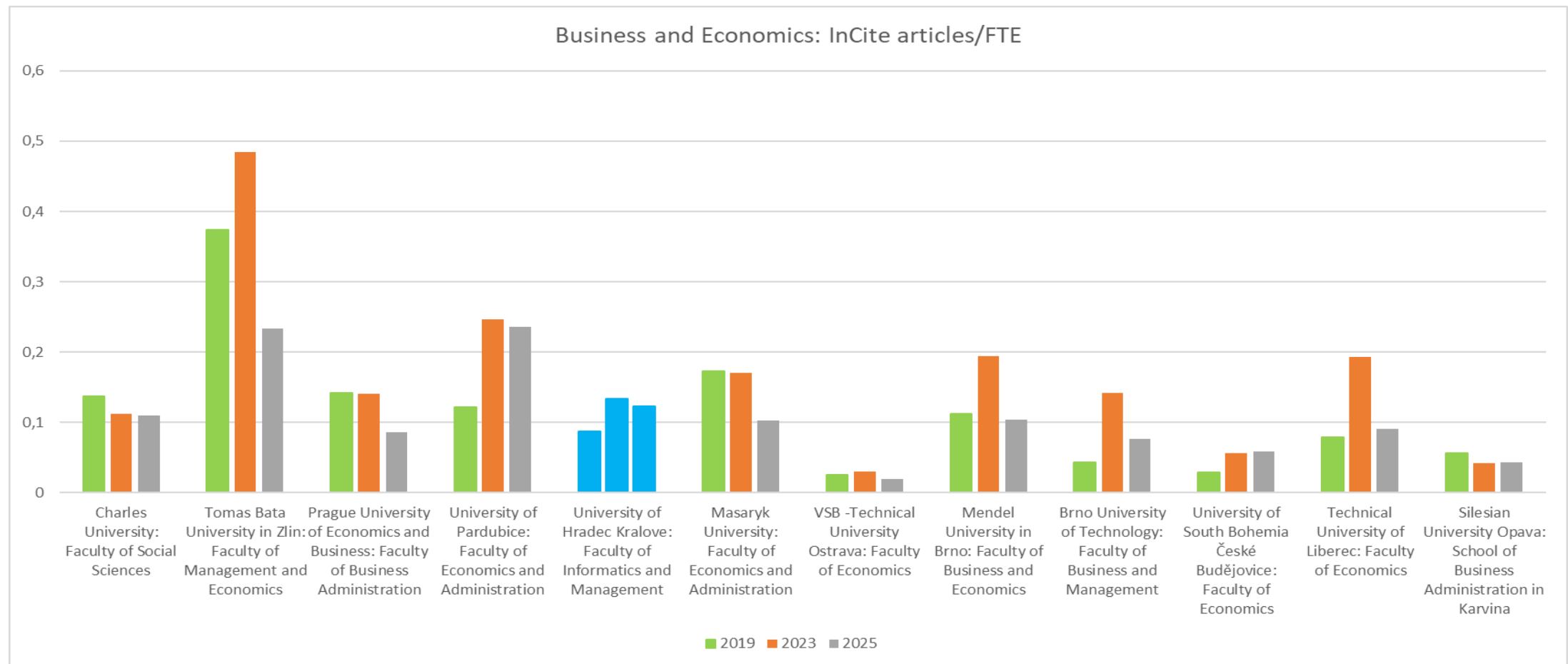
\* December 2025 not included

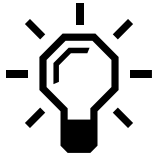




## FORD 5.2 - Business and Economics: a comparison among faculties

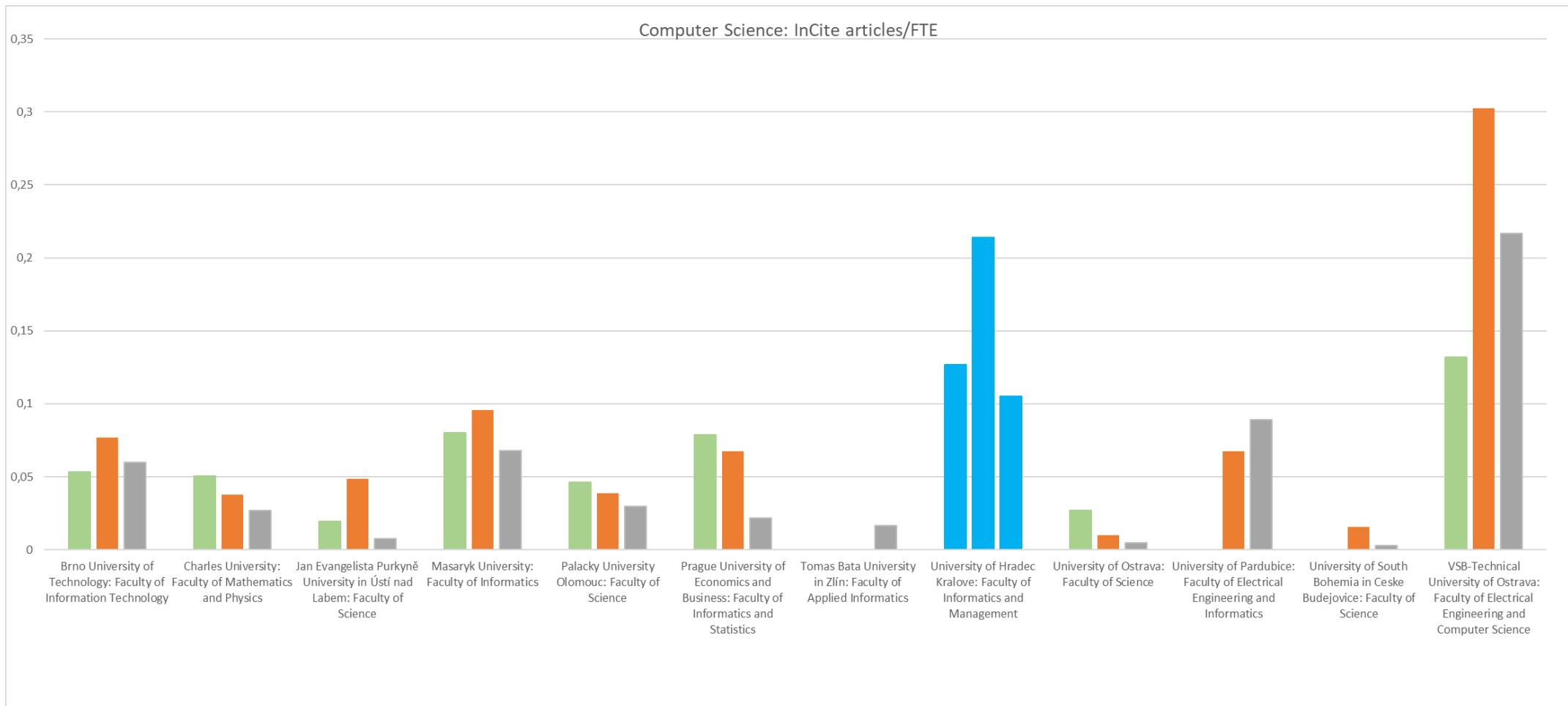
- = InCite records, journals articles only
- = Related to FTE according to the Ministry of Education, Youth and Sports

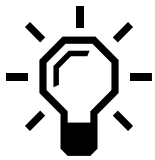




## FORD 1.2 - Computer Science: a comparison among faculties

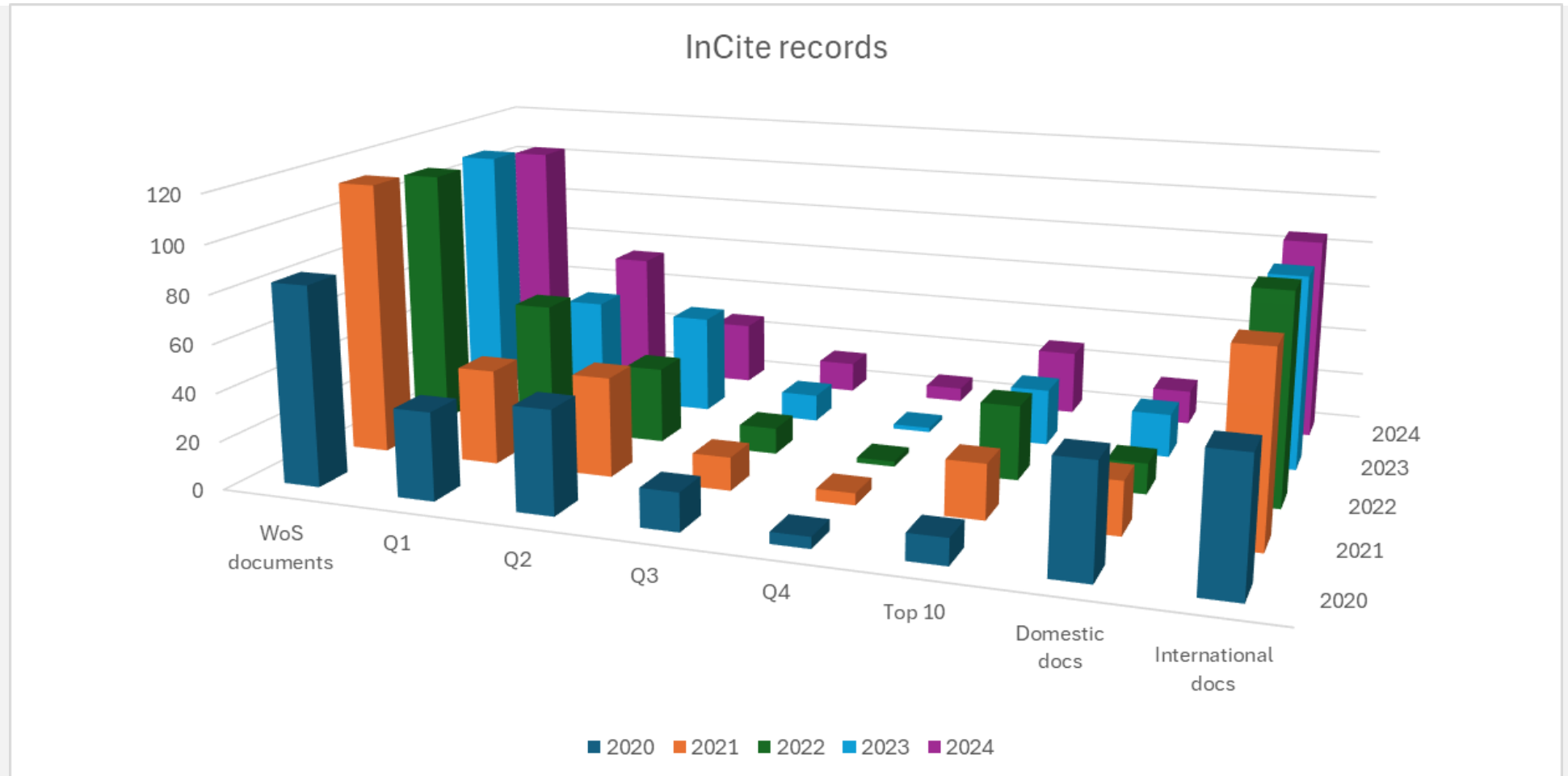
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## Qs and the Internationalization of Publications

- = **Comparison of publications with respect to international authoring teams and quartile**  
(source: Clarivate InCites)







University of Hradec Králové  
Faculty of Informatics and Management



# Research Activities and Projects

University of Hradec Kralove, Faculty of Informatics and Management





LTE-ANTM-D



Department  
of Information Technologies

## CYBERSECURITY

- Use of AI for expert system of asset identification and risk management
- Artificial intelligence for Smart and Sustainable Urban Mobility
- Securing IoT and resilient systems
- The utilisation of social engineering as a means of enhancing resilience to cyber threats



= **Project Goal:**

- The ARTISEC project focuses on the use of artificial intelligence to ensure cyber security

= **Funding:**

- Technology Agency of the Czech Republic - The THÉTA 2 programme is aimed at supporting applied research and innovation in the energy sector
- 1,25 mil. EUR

= **Project duration:** 2022 – 2025

= **Additional partners:**

- The Faculty of Electrical Engineering and Communication, Brno University of Technology
- Self-Governing Region Hradec Kralove







**Department of Informatics  
and Quantitative Methods**



- = Algorithmization
- = Indoor Localization
- = Data Science, Data Processing and Analysis, Statistical and Mathematical Modelling
- = Application of AI





= **Algorithmization**

- = Web service application for Quartz Scheduler (DERS, spol. s r.o.)
- = Design of a paperless laboratory concept (VUOS a.s., EffiChem, spol. s r.o.)
- = Design and analysis of a hotel process simulator (VŠH, spol. s r.o.)
- = Design of an application for processing medical data from Capsule Endoscopy (FN HK)
- = Mobile application for CO2 sensor readings including visualization and sensor management via NFC (Protronix, spol. s r.o.)

= **Data Science, Data Processing and Analysis, Statistical and Mathematical Modelling**

- = Analysis of data related to water management (institutional project with the company Povodí Labe)
- = Analysis of data from the transport system of the city Pardubice and data describing the use of parking spaces in the city of Hradec Kralove (MPO project Smart Parking & Charging)
- = Analysis of data describing the habits and behaviour of elderly people (project with the Medical Faculty of Hradec Kralove and others)



**Department of Economics**



- = Application of decision-making methods and methods of dynamic simulation in the field of healthcare
- = Design of a dynamic model to evaluate the effectiveness of investment in the selected areas of research and development
- = Econometry and related models and indicators
- = Industry 4.0/Company 5.0



## Devising a Personalized Risk Stratification and Holistic Management for Prevention of Cognitive Impairment in Patients with different Cardiovascular Phenotypes: The Dorian Gray Project

- = **Horizon Europe, main coordinator:** Università degli Studi di Brescia (UNIBS)
- = **Project duration:** 2025 – 2029
- = **Objective:** University of Hradec Kralove in proposal: Generation of a Health Technology Assessment (HTA) report based on the results of an implementation clinical study in 4 clinical centres across Europe. HTA will explore legal, ethical, and social aspect as well and cost–effectiveness of the multidomain personalised intervention delivered through the ABCE (WP12). Outcome: implementation of the intervention in population with MCI.





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**Department of Management**

- = Audio-visual interaction: exploring the relationship between music and visual stimuli
- = Usability testing of websites and improving user experience (UX)
- = Analysis of eye movements and emotional facial expressions
- = Digital communication, innovative development , or digital communication on social networks or in the communication of multinational companies
- = The issue of innovation, or open innovation strategies, specifically in the area of human resource management strategy, referred to as the 'human side of open innovation'







**Department  
of Recreation and Tourism**

- = Sustainable and Socially Responsible Tourism
  - = Geotourism with emphasis on geointerpretation and geo-education
  - = Social responsibility in tourism
  - = Use of ICT, modelling and systems approach in tourism sustainability





## = 4GEON

- The IGCP-751 4GEON project supports geoscience knowledge transfer in geoparks
- **5 diverse geoparks** connected by approach to ABC interpretation and community involvement
- **Participating goeparks**
  - The Barrandian National Geopark
  - Rio Coco UNESCO UGGp
  - Colca y Volcanes de Andagua UGGp
  - Ngorongoro Lengai UGGp
  - Bohol Island UGGp







Department  
of Applied Linguistics

- = Approaches to foreign language teaching and learning
- = AI in higher education
- = Linguistic and ethical aspects of digital communication
- = Efficiency of digital tools for foreign language learning
- = Quality of Life of older generation in the context of digital education
- = Business digital communication and intercultural business communication



- = 2023 – 24 Grant of the Fund for Bilateral Relations (reg. no. EHP-BFNU-OVNKM-4-257-01-2023)
  - = **Artificial Intelligence in Formal Foreign Language Education** (UHK-NTNU)
- = 2022 – 23 Grant of the Fund for Bilateral Relations (reg. no. EHP-BFNU-OVNKM-4-198-01-2022)
  - = **Usefulness of Emerging Technologies in Formal Foreign Language Education** (UHK-NTNU)  
<https://sites.google.com/view/web-bilateral-initiative>
- = 2020 - 24 - COST CA19102 - **Language in the Human-Machine Era**
- = 2024 – 25 **Accelerating Digital Transformation for Higher Education Institutions in Southeast Asia** (DX.SEA) – (UHK, other European and Asian universities)

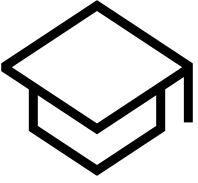




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# Study Programs



### = **Study programs taught in English**

- Applied Informatics (B, M, D)
- Information Management (B, M, D)
- Economics and Management (B, M, D)

### **Other study programs taught in Czech**

- Management of Tourism (B)
- Cybersecurity (B)
- Data Science (M)

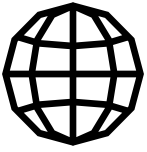




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# International Cooperation





## Achievements in International Cooperation

**A significant increase of the international pedagogical and research cooperation through:**

- = **memberships** in MC of COST **projects (9)**, KA2 projects, bilateral projects or Visegrad Funds
- = memberships in the program and organizing committees of **international conferences**
- = **invited lectures** at the international conferences
- = **ERASMUS mobility** academic and student exchanges
- = **summer schools** *Czech It Out* and *BIPs*
- = COST *LITHME* 4th **Training School**
- = **international conferences**





## Other International Projects

### Horizon Europe

- = 2025 – 29 Dorian Gray „Digital twinning Of caRdiovascular and cognitlve heAlth: aN inteGrated pRevention strAtegy for healthier aGeing“

### ERASMUS+ Cooperation Partnerships Projects

- = 2024 – 27 **AI4UNI**
- = 2023 – 26 **MISS4Health - Micro-credentials in Soft Skills for Healthcare Professionals and Students**
- = 2023 – 25 **Accelerating Digital Transformation for Higher Education Institutions in Southeast Asia** (DX.SEA101083265)
- = 2021 – 23 **EducAGE - Improving Competences of Older People Caregivers towards Healthy Ageing through Digital Transformation**

### Bilateral Projects - Norwegian Funds

- = 2023 – 24 **Artificial Intelligence in Formal Foreign Language Education**
- = 2022 – 23 **Usefulness of Emerging Technologies in Formal Foreign Language Education**

### Visegrad Funds

- = 2023 – 24 **Central European Urban Resilience Handbook for Best Practices**



## Internationalisation

|                             | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 |
|-----------------------------|---------|---------|---------|---------|---------|---------|
| Number of incoming students | 186     | 141     | 189     | 235     | 219     | 272     |
| Number of outgoing students | 81      | 29      | 80      | 66      | 67      | 108     |



## Summer School Czech It Out

2019 - 124

2022 - 62

2024 - 42

2021 - 24  
(online)

2023 - 38

2025 - 120







### = **Erasmus+ programs**

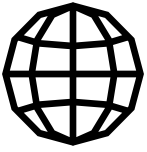
- Erasmus+ program for study, teaching, training or internships
- Erasmus+ International Credit Mobility
- Exchanges based on agreements about cooperation

### = **Course Catalogue**

- On average 40 subjects available in English per semester
- Students can take courses from other faculties (up to 25 % of credits only)

### = **ISCED codes**

- 0413 Management and Administration (includes Tourism, Languages)
- 0613 Software and applications development and analysis
- 0688 ICT (Information and Communication Technologies)



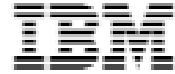
## = University Halls of Residence

- 25-30 minutes walk or take the city bus
- Apartment has 2 bedrooms for 2 or 3 people
- Kitchen & bathroom are shared by 4 or 6 students
- Laundry, gym
- EUR 170 EUR per month





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The Future in Motion



FIM UHK, CZECH  
REPUBLIC



## Achievements in Regional Cooperation

### = Collaboration with over 200 partner companies

- R&D projects
- invited lectures (more than 40 per year)
- practical projects (approx. 60 per year)
- supervision of final theses

### = 20 partner schools

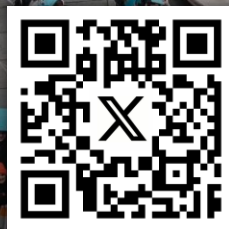
- lectures, excursions, competitions



Univerzita  
Hradec  
Králové



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Faculty of Informatics and Management



[www.uhk.cz/en/fim](http://www.uhk.cz/en/fim)