University of Debrecen
Faculty of Informatics

Education (BSc/MSc, BA/MA)

- in Hungarian and English
  - Business Informatics, BSc/MSc
  - Computer Science, BSc/MSc
  - Computer Science Engineering, BSc/MSc
- in Hungarian
  - Library and Information Sciences, BA/MA

Statistics

- Students: ~1800
- 6 professors (Doctor of Hungarian Academy of Sciences)
- 18 associate professors (PhD and habilitation)
- 36 senior lecturers (PhD)
- 12 assistant lecturers

Departments at Faculty of Informatics

- Department of Applied Mathematics and Probability Theory
- Department of Computer Graphics and Image Processing
- Department of Informatics Systems and Networks
- Department of Information Technology
- Department of Computer Science
- Department of Operations of Infocommunication Systems (affiliated ITSH)
- Department of Library and Information Science

The Doctoral School of Information Sciences

- Programs:
  - Fundamentals of Informatics
  - Discrete Mathematics, Image processing and computer geometry
  - Theoretical Fundamentals and Applications of Information Technology and Stochastic Systems
  - Digital Communication
  - Information Systems and Networks
  - Applied Information Technology and its theoretical backgrounds

Research and developments

- Future Internet Research, Services and Technology (FIRST)
  - Subproject1: Theoretical Foundation of Future Internet
  - Subproject2: Modelling and Analysis of Future Internet Networks
  - Subproject3: New Network Architectures and Protocols
  - Subproject4: Personalised Content Management
  - Subproject5: Internet of Things
  - Subproject6: Future Internet Social Applications

Laboratories

- Applied Informatics Research Group (AIRG)
- Applied Laboratory of Sensor Systems in IT and Lifescience
- Researches on Networking and Communication Technologies
- Intelligent Embedded Systems Research Laboratory
- Big Data, Image Processing, Visualisation and Computer Graphics
- 3D Virtual Models
- Smart City Living Lab
- Knowledge Centre of Budapest University of Technology and Economics (Faculty of Electrical Engineering and Informatics)

Cooperations1

National Instruments Hungary

- The relationship between the National Instruments and the Faculty of Informatics at University of Debrecen began **10 years ago**.
- The first cooperation was that the employers of the NI presented **professional courses** to the students in both places in the buliding of NI and at the University.
- The Department of Informatics Systems and Networks several times **consulted** on problems raised by the experts of NI.
- Using mathematical methods the data traffic on the firm's computer systems was analyzed and estimated.
- Moreover, the experts of NI helped the education by carrying **seminars** on actual engineering tasks and solution methods.

National Instruments Hungary

Several courses:

- Database Administration in practice,
- Application Development in Oracle at NI,
- Web Development using Adobe Experience Manager at NI.

- The faculty and the company had also **common projects**, furthermore the NI supports PhD students of the faculty with some topics and some data to their PhD research.
- A lot of **students work** for the NI as juniors, and than they will be employed by the NI.
- NI was a **sponsor** of several program of the faculty, such as professional days, and programming contest, moreover they offered allowance of their vocational training to the faculty many times.

Cooperations2

ITSH

- **Specialisations at the University of Debrecen**

From September 2009, all students of the University of Debrecen can choose one of two specialisations organised by the Faculty of Informatics (IK) and supported by IT Services Hungary Kft. (ITSH):

  - **Operation Systems** is worth 36 credit points,
  - **Network Skills** is worth 35 credit points.

- They participate regularly as Committee members in the State Exams of the Faculty.
- Awarded by Deutsche Telecom with the “Best in Class” certificate in 2012.
- Future: work on the reorganisation of the Specialisations, to decrease the length of the studies by offering more specialised content for the “non-IT engineering” students.

Cooperations3

eaching cooperation in testing at the University of Debrecen Faculty of Informatics

As a result of the exemplary cooperation of the University of Debrecen Faculty of Informatics and leading IT enterprises Debrecen Testing Board (DTB) was founded. The aim of this initiative is to provide a platform on the field of testing that can help increasing the prestige and popularity of testing, dissemination of knowledge and making contact between entrants and the labour market.

Partners of the DTB are:

- **University of Debrecen Faculty of Informatics**
- **National Instruments Hungary Ltd.**
- **Neuron Software Ltd.**
- **IT Services Hungary Ltd.**
- **Schönherz School Co-operative**
- **Expert Training Ltd.**