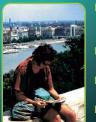
Why to choose ELTE for specialization?



- You can join strong research groups involved in analysing complex systems used in social services, communication networks and in services provided by telecommunication software.
- You can work on large-scale innovative projects initiated by industrial partners, i.e. Ericsson Hungary, Nokia Siemens Network, Telecom Hungary, Cisco and ELTE-Soft.
- You can experience the lively atmosphere of the InfoPark, where the university is co-located with the industrial partners.
- You can enjoy the unique urban culture and vivid nightlife of Budapest with its world famous ruin pubs and exclusive spas.





The Central and Eastern European students who are joining the EIT ICT Labs Master School have an additional resource for help. The EIT ICT Labs X-Europe Consulting Office located in Budapest, Hungary, has been created for them to bring the EIT ICT Labs MSc programmes to their attention, and to help them gain access to the programme of their choice. The X-Europe team uses region specific knowledge in accessing the students, and provides them with up-to-date information as and when required by them, both face-to-face and online:

- technical information on the programmes, including the curricula and the internships
- practical information on the application requirements, application deadlines and available scholarships
- assistance with preparing the application materials, with a particular emphasis on writing the motivation letters.



To learn more about the EIT ICT Labs Master School, the Budapest X-Europe team and its Consulting Office, visit www.ictlabs.elte.hu www.facebook.com/X-Europe or e-mail xeurope@ictlabs.elte.hu.

Do a Master's Programme in Information and Communication Technologies in Budapest





EIT ICT Labs

MASTER SCHOOL

www.masterschool.eitictlabs.eu

What is the background of the EIT ICT Labs Master School?

- ICT Labs is the European Union's, and more specifically, the EIT's (European Institute of Innovation and Technology) Knowledge and Innovation Community focused on Information and Communication Technology (ICT). The community emerged from the recognition that the best results (products) in the field of ICT can only be achieved through the close collaboration of experts representing three sectors: education, research and industry.
- EIT ICT Labs has recently set up its Master School. The objective behind it is twofold. On the one hand, it aims to provide the students with a sound technical knowledge; on the other hand, it aims to stimulate an entrepreneurial mindset and develop valuable business skills. The students are expected to use their technical knowledge to generate breakthrough innovations on the global markets.
- The EIT ICT Labs Master School now offers a two-year programme in which students can choose two universities in two different European countries to build a curriculum of their choice. There are seven technical majors available, from which the students choose one based on their skills and interests.

Why to choose EIT ICT Labs Master School?

- A 2-year programme at 2 different universities from 8 countries
- 2 19 top universities across Europe to choose from
- 3 7 MSc programmes in the most innovative research fields in ICT
- 4 High level technical education combined with an Innovation & Entrepreneurship minor
- **6** Research and work experience at leading industrial partners
- 6 Double degrees and an Innovation and Entrepreneurship EIT ICT Labs Certificate

The structure of the Technical Majors and of the Innovation & Entrepreneurship Minor:

The Technical Majors (90 ECTS) consist of three parts:



The Innovation & Entrepreneurship Minor (30 ECTS) consists of four parts:



Service Design and Engineering (SDE)

When to choose this major?

- You have to join this programme if you are interested in digital, software intensive services towards which the whole industry, software technology and engineering, and information systems are shifting from software products!
- 2 You wish to cope with novel challenges and opportunities that sensor networks, social computing, peer-to-peer interactions, mobile, location and context aware services, and more generally, the merging of the real and virtual worlds in all spheres of human life create.
- 3 You wish to use the new advances in cloud computing to deal with the current information overload and the growing demand for new service models.
- You wish to work as a software engineer, software/information architect, systems engineer, business/service development manager, account manager, enterprise architect or consultant.
- 6 You wish to take up a management or leadership position at the international level.
- 6 You wish to have an advanced research career in the industry or in the academia.



What are the goals of the programme?

- Develop the multidisciplinary technical skills that are needed for the designing and building of digital, software intensive services based on service-oriented architectures.
- ② Develop an understanding of and the ability to analyse the organizational settings and the user and business requirements in which the service-based systems are deployed and used.
- Stridge the gap between Computer Science and Software Engineering, and between Information Technology and Information Systems.

In what areas does SDE have an important role?

- Health and Wellbeing
- Smart Energy Systems
- Digital Cities of the Future

- Intelligent Mobility and Transport
- Smart Spaces

Service Design and Engineering at ELTE

1st year: Common base

It develops a common background and prepares the students for all the technical specializations offered in the programme.

Courses related to four main disciplines:

- Introduction to Services
- Complex Systems Architecture
- Information Systems
- Software Engineering and Development
- Flectives

2nd year: Specialization on Distributed Software Systems

It supports the design, analysis and development of complex distributed telecommunication services.

Courses:

- Development of Distributed Software
- Service-Oriented Integration
- Analysis of Distributed Systems and Process Structure
- Flectives:

Large-scale Projects for Analysis and Development of Complex Telecom Software

Design of Distributed Systems

Reverse Engineering of Complex Software Systems via Static Analysis