



CZECH
TECHNICAL
UNIVERSITY
IN PRAGUE

**FACULTY OF ELECTRICAL
ENGINEERING**

DEPT. OF TELECOMMUNICATION ENGINEERING



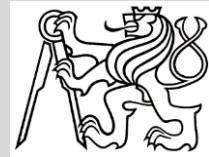
**ITU Centre of Excellence
@ the Czech Technical
University in Prague**

Jaroslav Burcik

Czech Technical University in Prague



- Established 1707
- Edict of Joseph I, Holy Roman Emperor

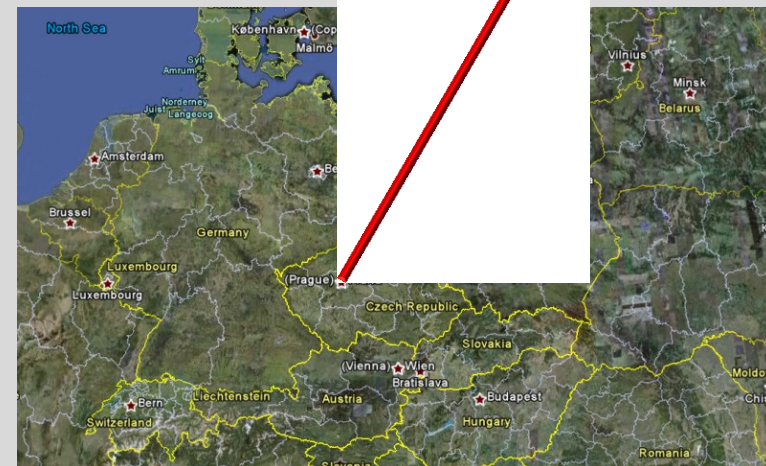


• 8 Faculties

- **Electrical Engineering** - FEE-CTU (since 1950),
ITU Academia Member of all sectors (since 2011)
- Architecture
- Biomedical Engineering
- Civil Engineering
- Information Technology
- Mechanical Engineering
- Nuclear Sciences and Physical Engineering
- Transportation Sciences



- Approximately 21.300 students
- Best engineering School in Czech Rep.



Centre of Excellence at CTU



Our goals

- Increase professionalism and raise awareness on cyber security
- Improve the environment for the promotion of cooperation between academia and the business sector

We offer

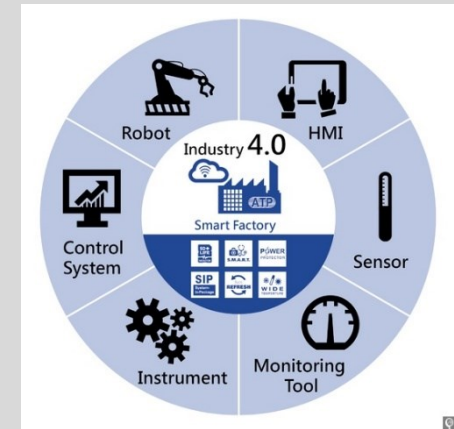
- Joint research projects
- Expert advisory
- Practice-oriented tailored courses in unique equipped laboratory

The centre is an academic member of Radiocommunication, Standardization and Development sector of the International Telecommunication Union (ITU).



Areas of focus

- Cyber Security for Industry 4.0
- Cyber Security for SMEs
- Cyber Security in Health Care



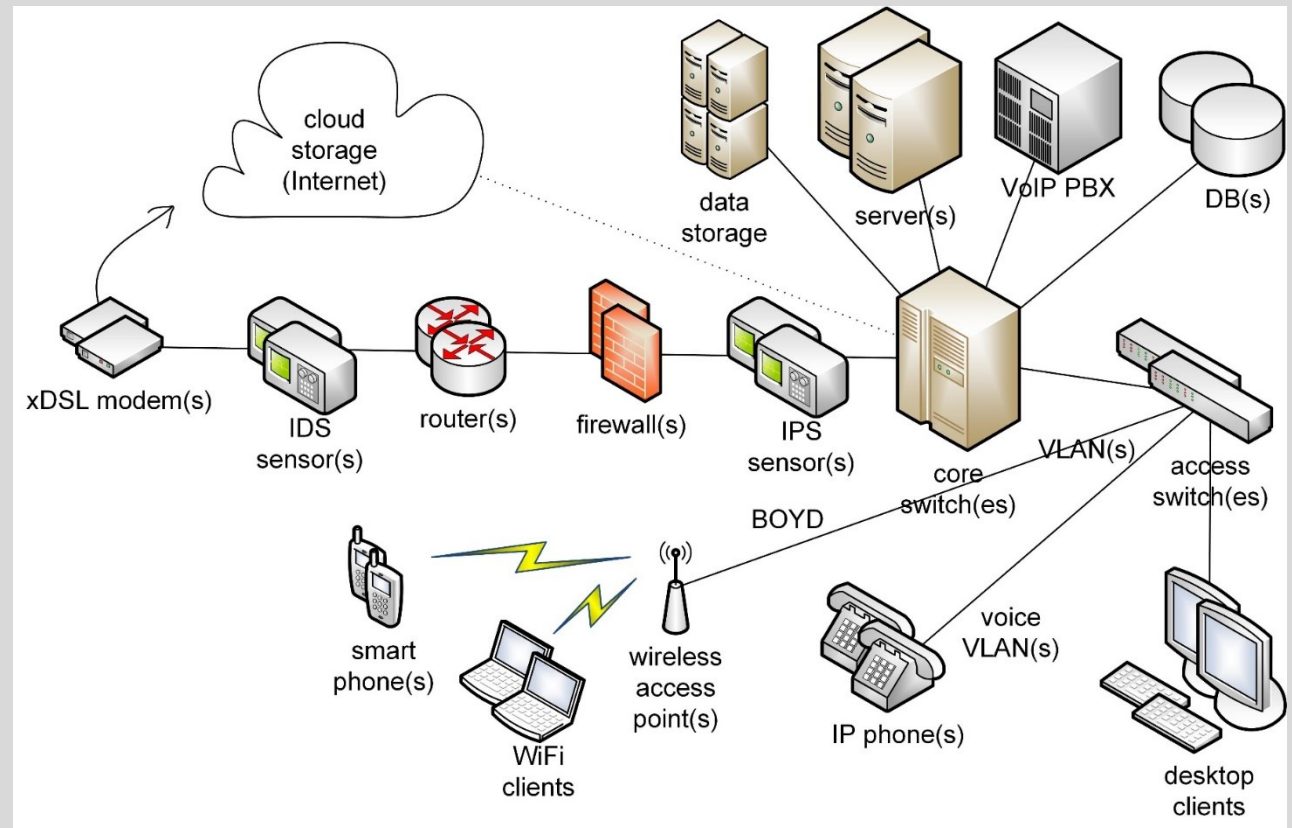
Target group

- Companies – with focus on start-ups and SMEs
- Government
- Students – esp. high school students

Equipment



- Unique equipped laboratory
- Experienced lecturers from industry



All in one platform



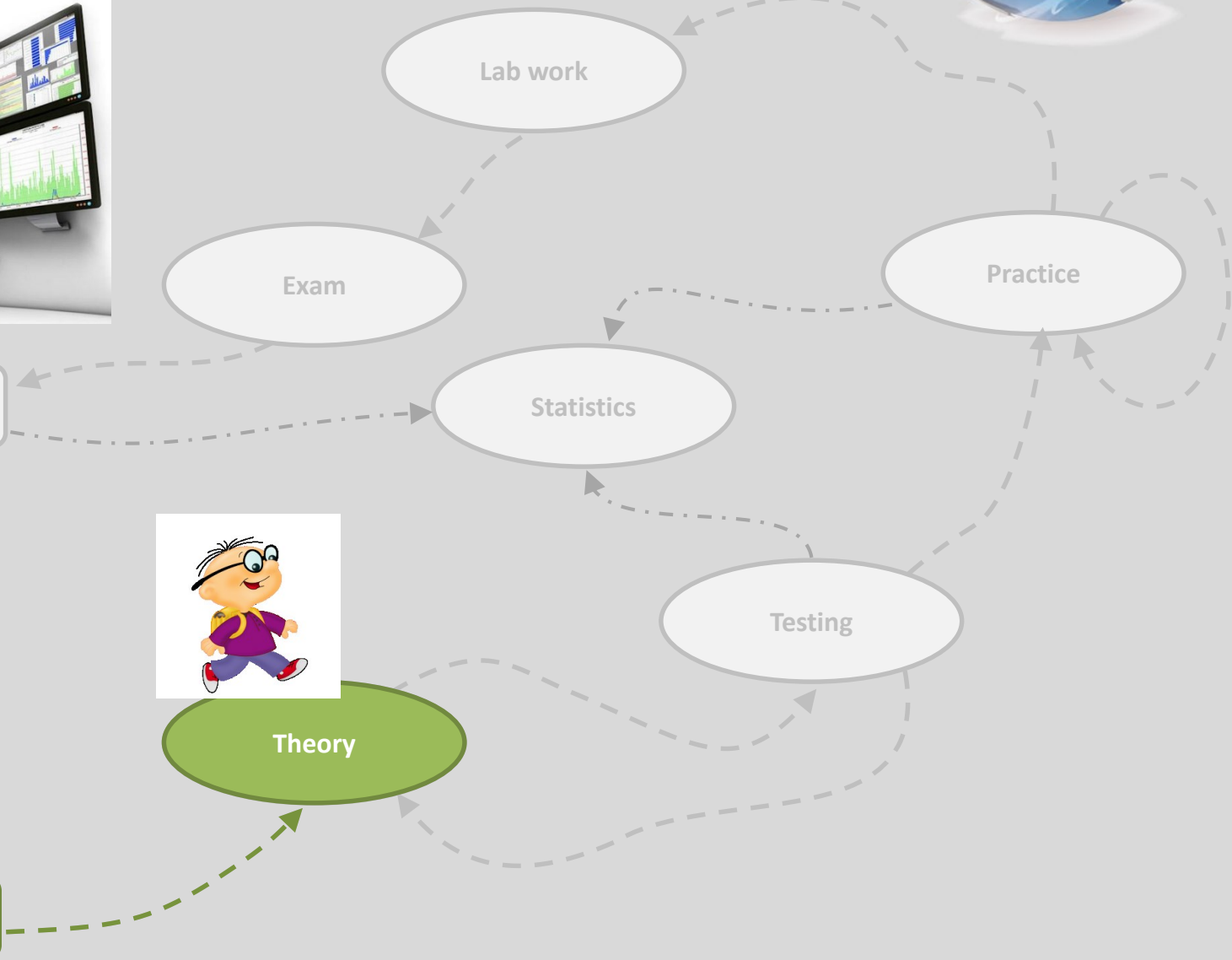
Learning results



Theory

Testing

Learning stages



CoE Activities



- Evening courses
 - Focused on the general public to improve knowledge about selected aspect in cybersecurity
- Incentive lectures
 - Aimed to motivate high school students to study the cybersecurity topics in depth
- Practice-oriented courses
 - Expert level for business & government cooperation

Support Activities



- Evening courses
 - Cybercafés
 - Open, free & everybody welcome
- Incentive lectures
 - Support activities for university high schools
 - Trainee programme for CTU students
 - Cybersecurity summer school

Centrum excellence pro kybernetickou bezpečnost

Esset vřstout v technice v Praze

Pravidelný cyklus přednášek odborníků z praxe na téma kybernetické bezpečnosti

- 14. 03. 2016 **Trendy v bezpečnosti ICT**
Michal ZEDNÍČEK, ALEF NULA
- 21. 03. 2016 **Aplikační bezpečnost**
Radovan GIBALA, FS Networks
- 04. 04. 2016 **Trendy ve vývoji malware**
Jan KOPRIVA, ALEF NULA
- 18. 04. 2016 **SIEM**
ALEF NULA
- 02. 05. 2016 **Network traffic monitoring & analysis**
Pavel MINÁŘÍK, Flowmon Networks
- 16. 05. 2016 **Profesní a kariérní rozvoj v oblasti kyberbezpečnosti**
Jan GUZANIC, ThreatMark
- 30. 05. 2016 **Dotyce a prevence útoků v síti**
Jiri DOBELA, Trend Micro

Cyber CAFE

Čas konání: 17:00 – 19:00 hod.
Místo konání: ČVUT-FEL, Technická 2, blok B2, místnost 505 – Samsung Lab
Přihlášení: www.itu.fel.cvut.cz
Kontakt: Jaroslav Burčík, burcik@itu.fel.cvut.cz

X ALEF Flowmon ThreatMark TREND MICRO SAMSUNG eseset



Professional development



- Advisory in field of cybersecurity for university start-ups and SME companies founded by graduates
- Practice-oriented courses
 - Cyber Security Awareness for SMEs
 - Cyber Security Lifecycle of the New Millennium
 - Spectrum Management Training Programme



Our another ITU activities



Faculty of Electrical Engineering of the Czech Technical University in Prague as an Academia member of all ITU sectors:

- Organized the Academia Meeting in Prague (BDT/ITU-D, April 2014)
- Collaboration with ITU-D under MoU (December 2015)
- Establish ITU Centrum of Excellences on Cyber Security for Europe (January 2015)
- Organized the Global Symposium on Small Satellite Regulation and Communication Systems (BR/ITU-R, March 2015)
- Prepare for the implementation of the ITU Academy Spectrum Management Training Programme (2016)

ITU Spectrum Management Training Programme at CTU



Special focused course under the ITU umbrella, offering students across the globe access to state of the art holistic SM training and forward looking professional vision

- **2 semesters (1 year)**
- **Combination of face-to-face (twice of each semester), remote teaching (Moodle, on-line consultations) and self-studying**
- **Module corresponds to**
 - 4-5 weeks per module
 - 125 hours, 40 hours of classroom training
 - 30 hours of lectures
 - 10 hours of practical exercises
 - Assessment in the end of each module, internationally recognized ITU certification

Starting date: CTU Prague, February 2017

Conclusion and Future steps



CoEs idea is great! It works!

Let's CoE work together more closely
- common projects, personal exchanges etc...



Thank you for your attention

Contacts

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