

National Institute of Telecommunications

Sylwester Laskowski

3rd Steering Committee Meeting of ITU CoE for Europe
17 January 2017, Copenhagen, Denmark

NITs ITU CoE area

Capacity Building in Internet Governance

ITU CoE workshops in 2016

One e-learning course

- **Strategic Aspects for Internet Governance and Innovations** (26 September - 3 October 2016)

Two face-to-face workshop

- **Wireless Access Technologies to Internet Network** (3-4 November 2016)
- **Teletraffic Engineering for the Internet - analytical approach** (24-25 November 2016 - finally canceled)

ITU CoE e-learning course on:
Strategic Aspects for Internet Governance and Innovations
26 September - 3 October 2016

- The course was organized by the ITU CoE of National Institute of Telecommunications (NIT), Warsaw, Poland, and was coordinated by Dr. Sylwester Laskowski, who has produced **the videos** for all lectures **from face-to-face ITU training held in November 2015** at NIT, Warsaw, Poland.
- **The course was tutored by Prof. Dr. Toni Janevski** from the Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University in Skopje, Macedonia. Prof. Toni Janevski was the tutor for the duration of the course, as well as he was managing the course from the beginning until its end.

This e-learning course was delivered via **ITU Academy platform** using the following methodology:

- The course material were studied and discussed over a time period of **one week**;
- Course materials, consisted of **10 recorded video lectures** with total time of approx. **10 hours**, as well as **offline presentations**, were made available on a daily basis, that is, **two video lectures per day**, via the ITU Academy, where each participant could access the video materials at any time during the course;
- **Discussion forum** was organized based on discussion topics given on a daily basis (one per day);
- Final Quiz test was given on 3rd of October (Monday), at the end of the course (within a given time window for accessing the Quiz, on 3rd of October, and given time period for solving the Quiz after accessing it, while the Quiz itself was based on multiple choices questions);
- All **announcements for all events** (video lectures, quiz and forums) were given in a timely manner by the course tutor.

ITU CoE e-learning course on:

Strategic Aspects for Internet Governance and Innovations

26 September - 3 October 2016

Program of the course:

Lecture Number	Title of the Video Lecture	Video Duration
1	Convergence in Telecommunications toward Internet	77 min
2	Broadband Strategies and Innovations	87 min
3	Internet Standardization and Policy	61 min
4	Innovation management in ICT	43 min
5	Google model vs. Apple model	47 min
6	Mobile and Internet telephony	86 min
7	IPTV innovations	74 min
8	Innovative services and applications	48 min
9	Network neutrality	72 min
10	Management and regulation of Internet	23 min
	Overall	10 h 18 min

ITU CoE e-learning course on: **Strategic Aspects for Internet Governance and Innovations** 26 September - 3 October 2016

31 Participants:

1. Suriname – 8 (South America)
2. Portugal – 3 (Europe)
3. Saint Lucia – 2 (Central America)
4. Greece – 2 (Europe)
5. Albania – 2 (Europe)
6. Moldova – 2 (Europe)
7. Latvia – 2 (Europe)
8. Kenya – 1 (Africa)
9. Poland – 1 (Europe)
10. Macedonia – 1 (Europe)
11. Papua New Guinea – 1 (Australia and Oceania)
12. Niger – 1 (Africa)
13. Uganda – 1 (Africa)
14. Liberia – 1 (Africa)
15. Sri Lanka – 1 (Asia)
16. Guyana – 1 (South America)
17. France – 1 (Europe)

Participants by continents:

- Europe – 14
- South America – 9
- Africa – 4
- Central America – 2
- Asia – 1
- Australia and Oceania - 1

Success in final quiz

28 persons (from 31)

Satisfaction (feedback from 7 persons)

- ITU Academy platform - 92. %
- Tutor and his expertise – 100%
- Coordination of the course – 97,6%

ITU CoE Workshop on: **Wireless Access Technologies to Internet Network** **3-4 November 2016**

- The course was organized by the ITU CoE of National Institute of Telecommunications (NIT), Warsaw, Poland, **in the period 3-4 November 2016**, and was coordinated by Dr. Sylwester Laskowski.
- **The course was tutored by Prof. Dr. Toni Janevski** from the Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University in Skopje, Macedonia.
- The course **have been recorded**.
- At the end of the training, the participant should have gained an understanding of the key aspects of:
 - Wireless and Mobile Internet fundamentals
 - 4G access technologies by 3GPP: LTE/LTE-Advanced
 - Evolved Packet Core (EPC) for mobile Internet network
 - 4G access technologies by IEEE: Mobile WiMAX
 - WiFi access technologies: IEEE 802.11n/ac/ad
 - QoS in wireless and mobile networks
 - 4G mobile VoIP and mobile IPTV
 - OTT (Over-The-Top) broadband Internet services in wireless and mobile networks
 - QoS assesment and QoS parameters for mobile services
 - Regulatory and business aspects for wireless and mobile brodband access to Internet

3 participants (2 Greece, 1 Romania)

Experiences

- Finding participants is still a challenge
- E-learning courses are the winner
- Face-to-face workshops can be a way to building e-learning courses
- E-learning courses can be a way to recoup the costs of face-to-face workshops
- Sugestion: the possibility of early registration

Plans for 2017

Two e-learning courses

- 3-10 April 2017
Strategic Aspects for Internet Governance and Innovations
- 25 September – 2 October 2017
Wireless Access Technologies to Internet Network

Two face-to-face workshop

- 26-27 October 2017
Security in Internet Network
- 23-24 November 2017
Legal and regulatory barriers to the introduction of cloud services in the EU

Thank you for your attention!