



# **Trainings delivered in 2019 by ITU CoE at FEEIT in Skopje**

Steering Committee meeting  
for the ITU Centres of Excellence in Europe for 2020

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## ITU CoE of FEEIT activities in 2019

- For 2019 the ITU CoE at FEEIT in Skopje has delivered two elearning courses as self-sustainable trainings via the ITU Academy:
  - 1) The first elearning course in 2019 has a title "NGN Evolution, Future Networks and Ultra-Broadband Internet", with delivery dates 28 May - 24 June 2019 (duration: 4 weeks).
  - 2) The second elearning course in 2019 has a draft title "Wireless and Mobile Ultra-Broadband: LTE-A Pro, WLAN, and 5G NR", with delivery dates 19 November - 16 December 2019 (duration: 4 weeks).



# ITU elearning: “NGN Evolution, Future Networks and Ultra-Broadband Internet“

- **Dates:** 28 May – 24 June 2019
- **Duration:** 4 weeks
- **Course fee:** 150 USD
- **Number of participants:** 76
- **Target audience:** This course was targeted at managers, engineers and employees from regulators, government organizations, telecommunication companies and academia, who are interested in understanding, implementation and regulation of NGN Evolution, Future Networks and Ultra-Broadband Internet, including technologies, standardization, regulation and content.



# ITU elearning course: NGN Evolution, Future Networks and Ultra- Broadband Internet

WEEK	TOPICS
1	Internet fundamentals
2	NGN evolution, Future Networks and trusted ICT infrastructures
3	Ultra broadband Internet access and transport
4	Services over ultra-broadband



# ITU elearning: “Wireless and Mobile Ultra-Broadband: LTE-A Pro, WLAN, and 5G NR“

- **Dates:** 19 November - 16 December 2019
- **Duration:** 4 weeks
- **Course fee:** 150 USD
- **Number of participants:** Expected **above 70**, not final because the course starts on 19 November 2019
  
- **Target audience:** This course was targeted at managers, engineers and employees from regulators, government organizations, telecommunication companies and academia, who are interested in understanding, implementation and regulation of Wireless and Mobile Ultra-Broadband, including technologies, standardization, regulation and content.



# ITU elearning course: Wireless and Mobile Ultra-Broadband: LTE-A Pro, WLAN, and 5G NR

WEEK	TOPICS
1	Mobile broadband technologies: LTE/LTE-A/LTE-A Pro
2	Ultra-broadband WLAN
3	Mobile ultra-broadband: 5G New Radio (5G NR)
4	Mobile ultra-broadband services



## Collaboration with other CoEs

- In 2019 there was **collaboration** with CoE of National Institute of Telecommunication (NIT), Poland, in delivery of 5 elearning courses and 1 face-to-face training.
- All together, nearly **500 participants** were trained in 2019.
- For all courses in 2019, the feedback showed **highest level of satisfaction** of participants from course tutoring and course coordination.



# Type of participants in the ITU Academy e-learning courses

- Different types of participants follow a given e-learning course, and they are coming from different organizations, including:
  - National regulators
  - Government organizations and ministries
  - Network and service providers
  - Telecom and IT companies
  - Students from universities
  - Professors from academia and instructors from training centers
  - ...and every individual which want to update their knowledge or have up-to-date information in a given field
- Different participants may have different interests and different focuses in a single ITU e-learning course, since most of them are professionals
  - Working in telecommunications/ICT or related fields
- Let see some feedback from participants regarding their benefits from ITU e-learning practices





# ITU e-learning Feedback from Participants

- It allows me and my organization to have an over view of the changes that the Internet will under or the next generation.

This will allow us to prepare and take necessary steps and trainings.

- Developing more up to date national advisory service in regulations and strategies

- My organization will benefit a lot

- Because I can improve the investigations that we carry out in the area.

- In general it is very useful to be attending topics when they have been updated in the industry, otherwise it is unnecessary to take courses, this is the most valuable of this particular course

- As far as this course is a concern, knowledge, and experience acquired is very satisfying since the evolution of technology is evolving around us especially in the field of telecommunication, networking, IT and so on.

- I needed to understand the trend in technologies and related services. And I can attest that I now understand these. What now remains on my side is to look into practical policy and regulatory interventions necessary for emerging technologies such as IoTs, Big Data related issues.

- My organization is benefiting from the knowledge and experience i acquired through this course by the quality of my interventions on the subjects I have in charge

- this course is very and beneficial. Our organization is going to benefit from it by the mastery of the notions studied.

- I will provide inputs to tender data requirements for FN that is based on 5G technology

- I don't have engineer background and the knowledge acquired during this training will allow me to be more educated on these questions and to have better and more relevant interactions with my engineers colleagues.

- My organization will benefit through integrating the content I learn into the curriculum we teach our students

- IoT and OTT

- It will benefit us a lot since we are moving more into broadband technologies in terms of FTTX and GPON. Upon attaining the information regarding this, our team will be ready to take the lead in this.

- in regulating & knowledge of new technologies.

Each participant and organization has its specific benefits from a given ITU course.



# Summary

- ITU CoE at FEEIT in Skopje continued its successful delivery of ITU training courses established over past 10 years (2009-2019).
- FEEIT has delivered the two e-learning courses that were proposed for 2019:
  - "NGN Evolution, Future Networks and Ultra-Broadband Internet", delivery dates 28 May - 24 June 2019 (duration: 4 weeks).
  - "Wireless and Mobile Ultra-Broadband: LTE-A Pro, WLAN, and 5G NR", delivery dates 19 November - 16 December 2019 (duration: 4 weeks).
- The distance learning courses held by the ITU CoE at FEEIT in 2019 and before have proven to be self sustainable and very interesting for the targeted audience worldwide.



**Thank you!**