



Trainings delivered in 2020 by ITU CoE at FEEIT in Skopje

Steering Committee meeting
for the ITU Centres of Excellence in Europe for 2021

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ITU CoE of FEEIT activities in 2020

- For 2020 the ITU CoE at FEEIT in Skopje has two elearning courses as self-sustainable trainings via the ITU Academy:
 - 1) The first elearning course in 2020 has a title "Future broadband internet, cloud computing and internet of things", with delivery dates 26 May - 22 June 2020 (duration: 4 weeks).
 - 2) The second elearning course in 2020 has title "Mobile Broadband Internet, 5G and Future Services", with delivery dates 17 November - 14 December 2020 (duration: 4 weeks).



ITU elearning: “Future broadband Internet, cloud computing and Internet of things”

- **Dates:** 26 May - 22 June 2020
- **Duration:** 4 weeks
- **Course fee:** 150 USD
- **Number of participants:** 285
- **Target audience:** This course is targeted at managers, engineers and employees from regulators, government organisations, telecommunication companies and academia, who are interested in understanding, implementation and regulation of Future Broadband Internet, Cloud Computing and Internet of Things, including technologies, standardization, regulation and content. Other institutions and individuals that are dedicated in building their capacity related to Future Broadband Internet, Cloud Computing and Internet of Things are also welcome to participate.



ITU elearning course: Future broadband internet, cloud computing and internet of things

WEEK	TOPICS
1	Internet Fundamentals and Governance
2	Future Broadband Access, SDN, and Cloud Computing
3	Internet of Things, Big Data, and Artificial Intelligence
4	Future Telecom, IoT/BigData/AI and OTT Services



ITU elearning: “Mobile Broadband Internet, 5G and Future Services”

- **Dates:** 17 November - 14 December 2020
- **Duration:** 4 weeks
- **Course fee:** 150 USD
- **Number of participants:** Not started yet (expected around 100)
- **Target audience:** This course is targeted at managers, engineers and employees from regulators, government organisations, telecommunication companies and academia, who are interested in understanding, implementation and regulation of Mobile Broadband Internet, 5G and Future Services, including technologies, standardization, regulation and content. Other institutions and individuals that are dedicated in building their capacity related to Mobile Broadband Internet, 5G and Future Services are also welcome to participate.



ITU elearning course: Mobile Broadband Internet, 5G and Future Services

WEEK	TOPICS
1	Mobile broadband Internet, IPv6 and governance
2	LTE/LTE-Advanced Pro, WiFi and 5G NR
3	5G Next Generation Core, IoT, clouds and AI
4	Future mobile services: telecom, 5G/IoT/AI, and future mobile OTT services



Collaboration with other CoEs

- In 2020 there was **collaboration** with CoE of National Institute of Telecommunication (NIT), Poland, in delivery of 5 elearning courses.
- All together, nearly **800 participants** were trained in 2020 so far (January-October 2020).
- For all courses in 2020, 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
 - ☐ ...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

In your opinion, how your organization is benefiting from the knowledge and experience you acquired through this course? *Please explain*

- By the time being IFT is working in the regulation for IoT so, the knowledge will be very usefull
- Company can learn the next level of Business
- For my opinion I will share my knowledge from this course to my organization and colleagues to improve more regulation on Broadband Access, Cloud Computing, IoT/OTT/AI/Big Data in the future network.
- Gained insight into the new vistas of ICT created by digital transformation and cutting-edge technologies
- It will equip us with the necessary knowledge when discussing about the future of telecoms and ISPs since we ourselves work on that industry.
- We are rolling out 5G i think the course clarified use cases very well.
- Yes, we will have to create our own internal training course to spread this information to other people in our organisation.
- Skills and competencies in Internet technologies and services will benefit regulation and public policies for this subject area. Governance of Internet will also get a very welcome upgrade in terms of overall knowledge, including AI, IoT and future networks.
- I think must of the material are going to be beneficial for my job

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



ITU e-learning Feedback from Participants

- IT WAS VERY POSITIVE SINCE THE TOPICS WERE UP TO DATE
- Through the knowledge and experience acquired through this training it has helped broaden my understanding about the future of broadband internet, cloud computing and internet of things. And since I am working with the submarine cable company in my country. It has helped me to understand what to expect in the future and help with sound decision making for our organization.
- Up to par with developments of new technologies and how our current Network status can handled new Technologies at the same maintain the resiliency and Network availability at all times.
- By having more futuristic and strategic architecture and framework proposals to have in the network to provide novel services to end customers
- Be able to look at technology from a framework perspective, and look at better ways of exploiting the technology within our organization
- Yes, because the course is very complete, it covers almost all the technologies that are actually used and it covers also many aspects about the regulation sector, that are very important and useful for my organization.
- Knowing what technology is to com and to start preparing for them
- the couse was very good
- my organization is asking questions to companies that provide equipment based on information we got in this course for improvement of service
- Specially interesting for people who works in the area.
- With the knowledge acquired in this course, I will have a clearer vision of how the telecommunications service will evolve in the near future and I will be better prepared to discuss and participate in the implementation of projects in the organization.

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

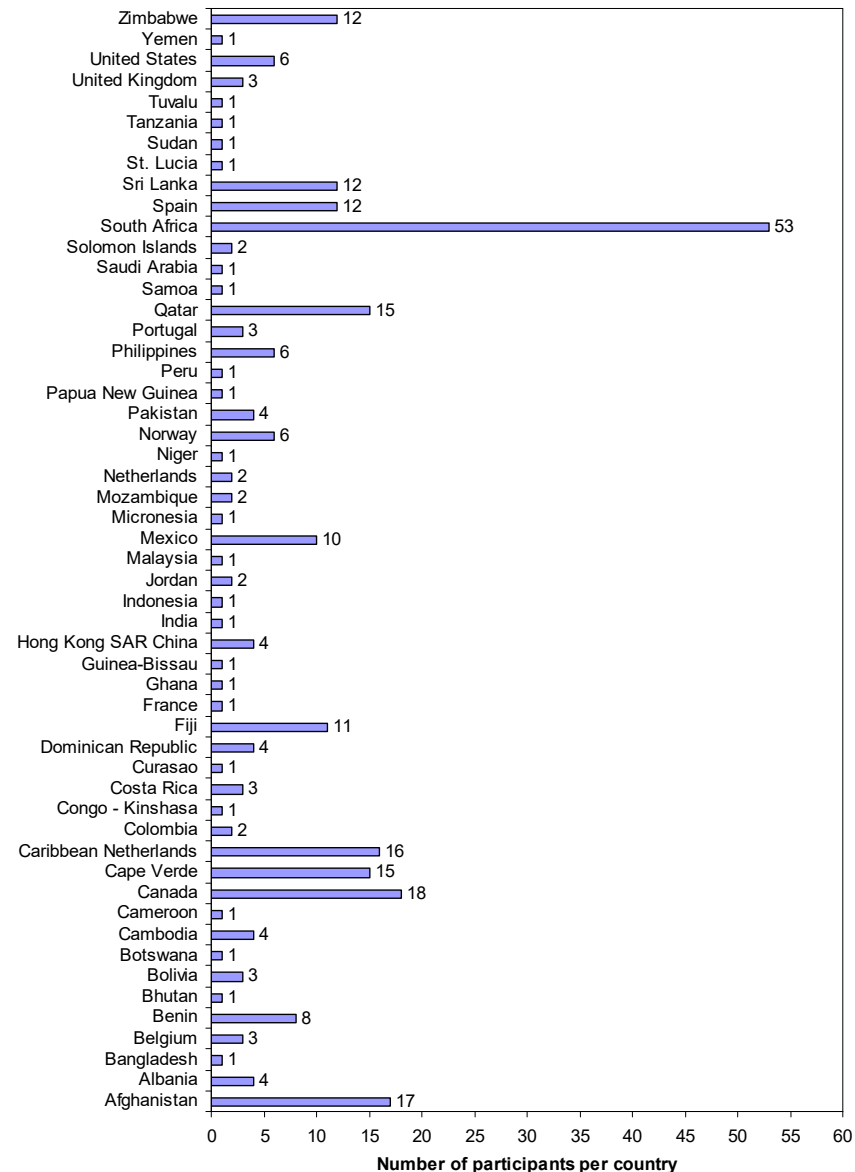


COVID-19 effect on ITU elearning courses

Case: Future broadband internet, cloud computing and internet of things (26 May - 22 June 2020)

**285 participants
from 53 countries**

Covid-19 increased the participation in ITU elearning courses.





Summary

- ITU CoE at FEEIT in Skopje continued its successful delivery of ITU training courses established over the past 11 years (2009-2020).
- FEEIT has/will delivered the two e-learning courses that were proposed for 2020:
 - "Future broadband internet, cloud computing and internet of things", with delivery dates 26 May - 22 June 2020 (duration: 4 weeks).
 - "Mobile Broadband Internet, 5G and Future Services", with delivery dates 17 November - 14 December 2020 (duration: 4 weeks).
- The distance learning courses held by the ITU CoE at FEEIT in 2020 and before have proven to be self sustainable and very interesting for the targeted audience worldwide.
- Covid-19 has increased the participation in ITU elearning courses in 2020.



Thank you!