ITU Centre of Excellence at FEEIT in Skopje

**2016 Meeting of the Steering Committee
for the ITU Centres of Excellence in Europe**

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ITU training activities delivered in 2015 via the ITU Academy

ITU Academy e-learning course	Dates	Enrolled participants	Participants that completed the course	Number of countries globally
Next Generation Broadband Internet Access	26 May - 22 June 2015	139	**86**	**40**
Mobile Broadband	17 November - 14 December 2015	157	**77**	**36**

Type of participants in the ITU Academy elearning courses

- Different types of participants followed the elearning courses, 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 individuals that wanted to update their knowledge in a given field

ITU e-learning Course:
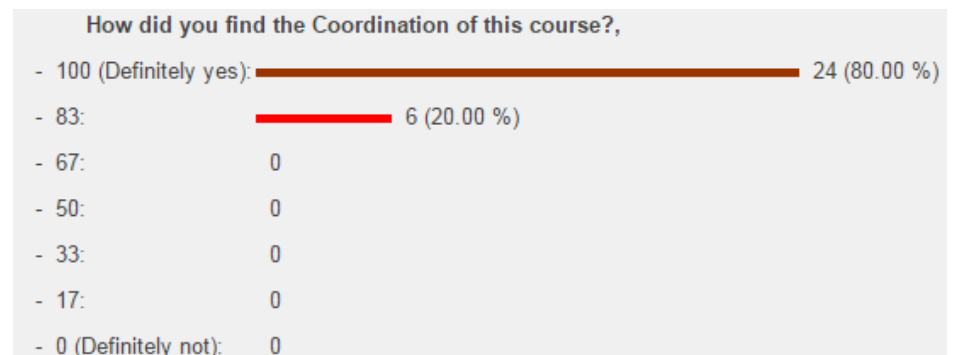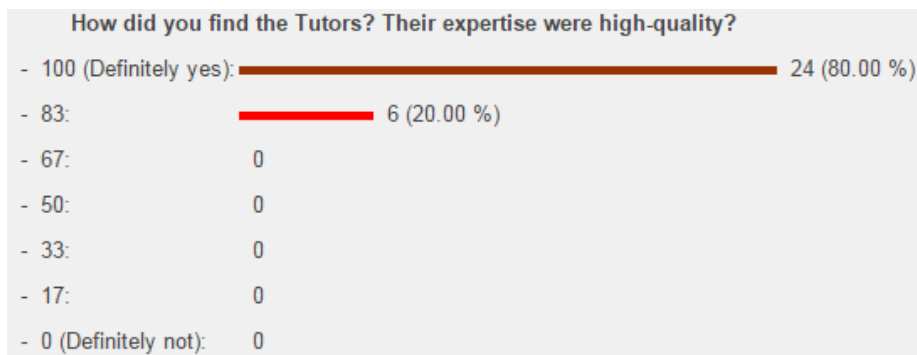# Next Generation Broadband Internet Access

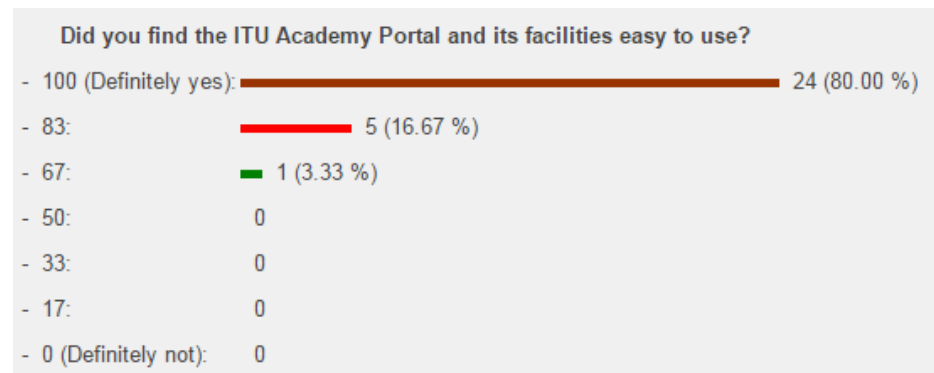| WEEK	MODULE TITLE
1	Module 1: **Internet technology fundamentals**
2	Module 2: **Broadband Internet access technologies**
3	Module 3: **Next generation broadband Internet access**
4	Module 4: **NGN and broadband Internet services**

ITU e-learning Course Feedback:
Next Generation Broadband Internet Access

Participants' satisfaction:

- ITU Academy Portal and its facilities easy to use: 96.1 %

- The quality of tutors: 96.6 %

- The coordination of the course: 96.6 %

Did you find the ITU Academy Portal and its facilities easy to use?

- 100 (Definitely yes):	24 (80.00 %)
- 83:	5 (16.67 %)
- 67:	1 (3.33 %)
- 50:	0
- 33:	0
- 17:	0
- 0 (Definitely not):	0

How did you find the Tutors? Their expertise were high-quality?

- 100 (Definitely yes):	24 (80.00 %)
- 83:	6 (20.00 %)
- 67:	0
- 50:	0
- 33:	0
- 17:	0
- 0 (Definitely not):	0

How did you find the Coordination of this course?,

- 100 (Definitely yes):	24 (80.00 %)
- 83:	6 (20.00 %)
- 67:	0
- 50:	0
- 33:	0
- 17:	0
- 0 (Definitely not):	0

ITU e-learning Feedback from Participants: Next Generation Broadband Internet Access 1/2

- my country engages in network infrastructure projects. backbone,IPV6, IXP, DNS, ... as an engineer involved in these projects good knowledge of technologies and their Evolution is fundamental
- For the future planning and optimization of our networks
- Well this particular course covers all the major aspects of broadband from Internet fundamentals, architecture, technologies etc. giving a overall good perspective of the way things have shaped up including the presently deployed technologies for mobile and fixed broadband their regulatory aspects and performance benefits. All this information is going to help in making decisions with respect to different regualtory issues that arise from time to time in the rapidly frowing broadband market apart from giving a comprehensive understanding on concepts and challenges that are associated with broadband expansion.
- Very useful information on Broadband
- It is very benifited for the regulation of Telecommunications sector in Nepal.
- share knowledge , Encouragement to acquire knowledge
- It informs the planning going fwd in terms of what to expect from the market, the vendors and regulators. one gets a sense of the direction that the industry is taking in spite of the obvious uncertainty of whether the industry will in fact, or how closely it will turnout in relation to the specification work of the recommendations.

- This course is interesting cause I am in a regulatory company.
- in the regulatory affairs
- it would help me to improve my everyday work on broadband services, I just regret not having so much time to disscuss some topics, but I hope I would have some more oppotunities to do that.
- Of course.
  My organization is the ICT regulator so this course answer well to all the issue we face in our country concerning broadband infrastructres and services
- My organization has my knowledge that has been improved by this online Course. Because this course has updated me in several issues and it has allowed me to learn other points of views about very important issues.
- Making an informed decision in network deployment.
- Because my organization is the Regulatory autority for electronic communication, this course was benefit in term of discussing with other participants, and also learning from experienced professors like Toni.
- We are service and network provider and keeping of up-to-date knowledge is necessary for further specialization
- It will be benifiting because the knowledge and experience acquired will help to improve the quality and consistency of the technical criteria I have to submit in several cases.

ITU e-learning Feedback from Participants: Next Generation Broadband Internet Access 2/2

- My organisation has acquired enough knowledge through its participant to meet its targets
- Enhancing of working knowledge of broadband internet technologies and further insight into and understanding of regulatory aspects globally which will help at the national level in terms of planning and implementation of the next generation broadband internet access technologies.
- My organisation as a Regulator should be one step ahead of the Service Providers, this course has definitely added a deeper and clear understanding of the Next Generation Internet Broadband Access Technology technically as well as the administration and legal aspects.
- * more knowledge - more trendy ideas
- It's always important for us to keep up-do-date with new technologies and to recall the technical aspects also. So this course was really like a refreshing course plus it allowed me to have a perspective of what technological developments are on-going or coming up.
- We have gained a in-depth knowledge of current and developing technologies that we use daily.

- Yes, it broadened my perspectives and knowledge.
- The knowledge and experience which I got through this course will help me to perform my duties and understand internet access technologies in more detailed way.
- It update the technical and regulatory people with the new technologies and help us to understand the right focus that market is going.
- The knowledge acquired would be useful and beneficial to utilize in the regulation of telecommunication sector of Nepal as a senior responsible officer of the Authorityto the maxium extent possible.
- The explanation of OTT, cloud computing services, internet of things gave me a perspective to the future developments in regulation, so this will be useful namely to my participation in the regulatory framework review.
- In terms of policing and standardizing in my country, what was delivered really share some light on the issues we are facing. Some includes;how to regulate internet contents, net neutrality, fully enhancing broadband development and adoption, spectrum management for mobile technologies. Also, the training reveals other factors to consider when drafting policy and standards on internet technologies including the economics behind it that affects all parties involved in the internet thing.
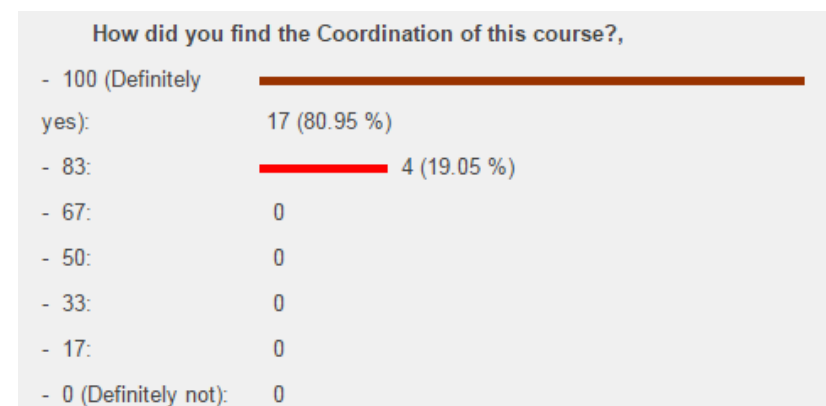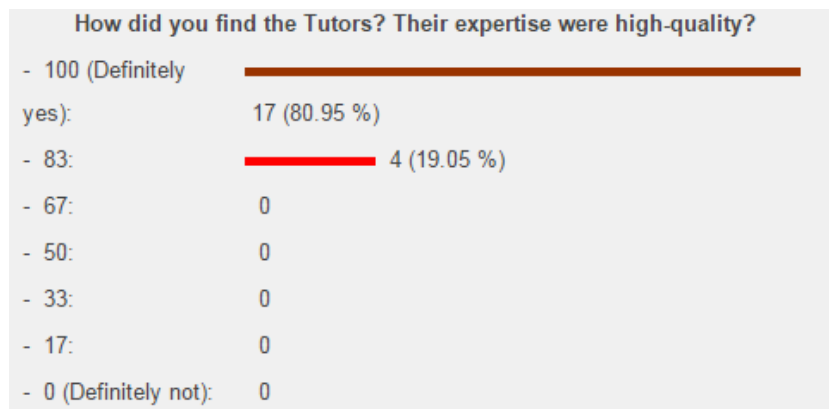
ITU e-learning Course:
Mobile Broadband

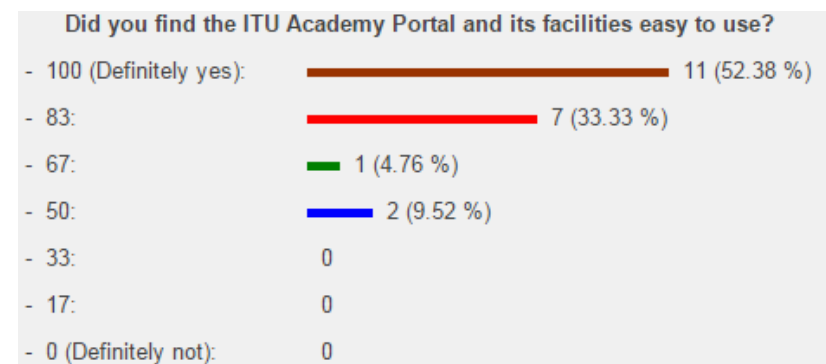| WEEK	MODULE TITLE
1	Module 1: **3GPP mobile broadband technologies**
2	Module 2: **IEEE mobile broadband technologies**
3	Module 3: **ITU's work on mobile broadband**
4	Module 4: **Mobile broadband Internet services**

ITU e-learning Course Feedback: Mobile Broadband

Participants' satisfaction:

- ITU Academy Portal and its facilities easy to use: 88.0 %

- The quality of tutors: 96.8 %

- The coordination of the course: 96.8 %

Did you find the ITU Academy Portal and its facilities easy to use?

- 100 (Definitely yes):	11 (52.38 %)
- 83:	7 (33.33 %)
- 67:	1 (4.76 %)
- 50:	2 (9.52 %)
- 33:	0
- 17:	0
- 0 (Definitely not):	0

How did you find the Tutors? Their expertise were high-quality?

- 100 (Definitely yes):	17 (80.95 %)
- 83:	4 (19.05 %)
- 67:	0
- 50:	0
- 33:	0
- 17:	0
- 0 (Definitely not):	0

How did you find the Coordination of this course?,

- 100 (Definitely yes):	17 (80.95 %)
- 83:	4 (19.05 %)
- 67:	0
- 50:	0
- 33:	0
- 17:	0
- 0 (Definitely not):	0

ITU e-learning Feedback from Participants: Mobile Broadband

- capacity building ;
- My organization will benefit with all the topics learned, because my area review and do prospective in all the telecommunication issues and regulatory policies in a day by day work.
- Since, we have just started 3G in Pakistan, after learning this course, i will be able to understand the upcoming network architecture, services and applications. I am keen to spread the same word among my colleagues within the organization.
- Acquired knowledge and understanding of mobile broadband technology will allow me to be more proficient and confident in frequency management and regulation.
- mobile broadband is another paradig in my country now. We undestand the think which are exact and not. This course give me knowledge for starting good debate in my town.
- We need such information for regulation challenges for mobile services
- Being the Telecom Regulatory Body, this type of courses are essential for its employee to understand basic technical knowledge.
- This course was very informative, well presented, plus enjoyable.

  I have learned so much from this course that will assist me in my workplace.
- much awareness of everyday internet experience on mobile devices
- - the material is up to date and tackle all the regulatory issues and operators issues

- With this course I learn very important topics, actual and future ones, that will help me to colaborate in matters of interest within my organization.
- For my Professional Development.
- As a training, my organization will benefit from the new knowledges and experience I acquired.

- knowledge learnt shall be made actionable on our various work environments
- Currently not working. but it has enhanced my understanding and certainly would leverage it on my next job
- I will be better able to communicate to clients of my company about Wireless Broadband technologies.
- I'l have better technical background and in that case I can do better economical solutions in regulation of market players.
- Currently we are using CDMA2000 EVDO Rev A technology for Mobile Broadband. We have a plan to move towards GSM as well as 3G. So as a core network planner this course give the solid ground to move upwards.
- "Mobile Broadband" is completely related to our job, knowledge gathered from this training will enable us to handle "Mobile Broadband" issues with more professionalism and confidence, which will reflect favorably on our organization and increase our level of expertise in the implementation and operational process.
- My organization is Academic. I believe that awareness on how mobile broadband is built and how it is regulated is part of a know-how and expertise that can be relevant for knowledge dissemination but also for correct understanding and use by students.

Proposal for ITU CoE activities in 2016

- For 2016 the ITU CoE at FEEIT in Skopje proposes two elearning courses as self-sustainable trainings to be provided via the ITU Academy:
  - 1) The first elearning course in 2016 has a draft title "Broadband Internet and Future Networks", with proposed delivery dates 31 May - 27 June 2016 (duration: 4 weeks).
  - 2) The second elearning course in 2016 has a draft title "4G and Next Generation Mobile Internet", with proposed delivery dates 22 November - 19 December 2016 (duration: 4 weeks).

Summary

- ITU CoE at FEEIT in Skopje has continued its successful delivery of ITU elearning courses established over past years (since 2009).

- ITU CoE at FEEIT has delivered successfully all planned courses for 2015, both as ITU Academy elearning courses:

  - "Next Generation Broadband Internet Access" (26 May – 22 June 2015);

  - "Mobile Broadband" (17 November – 14 December 2015).

- There are two proposed ITU Academy elearning courses for 2016:

  - Broadband Internet and Future Networks (31 May - 27 June 2016);

  - "4G and Next Generation Mobile Internet" (22 November - 19 December 2016).

- The ITU Academy elearning courses held by the ITU CoE at FEEIT have proven to be self sustainable, high quality, and very interesting for the targeted audience worldwide.

Thank you!