



ITU Centres of Excellence Network for CIS
Institute of electronics and telecommunication under KSTU after named I.Razzakov
Face-to-face training on

“Technical Organization of Broadband Access”
Bishkek, Kyrgyzstan, 29 September – 2 October 2015

TRAINING OUTLINE

COURSE DESCRIPTION

Title	Technical Organization of Broadband Access
Method of delivery	Face-to-face
Objectives	<ul style="list-style-type: none">• Acquaint participants with technical organization of broadband access, in particular with the standards of wired and wireless access, their classification and characteristics.• The workshop will enable participants to contribute to the implementation and development of broadband access.
Dates	29 September – 2 October 2015
Duration	4 days
Registration deadline	15 October 2015
Workshop fees	<ul style="list-style-type: none">• Face-to-face participation – USD 100;• Remote participation – USD 50
Course code	15WS14344CIS-R

LEARNING OUTCOMES

Upon completion of this workshop, participants will be able to:

- Understand broadband access legal framework;
- Understand key trends in the development of broadband;
- Know the basic technologies of wired and wireless access;
- Understand the specifics of implementation of the IPTV streaming television;
- Understand ways of solving the current problems of broadband access.

TARGET POPULATION

This workshop is targeted at technical staff, engineers, senior and mid-level management staff of communications service providers, telecommunication and broadcasting companies. It is also of interest to employees of Communication Administrations dealing with the issues of digital television, audio and multimedia broadcasting.

TUTORS/INSTRUCTORS

NAMEs OF TUTORS/INSTRUCTORS	CONTACT DETAILS
Mr. Rinat Bakytov Professor, Electronics Chair, Advanced Training Department, IET under KSTU	Email: rinat.bakytov@gmail.com
Ms. Anna Tutlis Leading specialist, Advanced Training Department, IET under KSTU	Tel.fax: +996 312 54 29 42, tel.: +996 709 22 61 81; e-mail: a.tutlis@mail.ru

EVALUATION

Besides the final assignment score, participants will be evaluated according to their substantive posts on the discussion forum, active participation in sessions and other course activities, reflecting both the quantity and quality of time spent on the training.

TRAINING SCHEDULE AND CONTENTS / AGENDA

Agenda

29 September 2015, Tuesday	Time; Start time	Topics/Activities
29/09/2015	08:30-09:00	Registration
09:00-12:30	Morning Session	<ul style="list-style-type: none"> Lecture 1: Essence, concept and main characteristics of broadband access. Goals, objectives and basic principles of broadband Lecture 2: Standards of wired and wireless broadband access technologies.
13:30-15:30	Afternoon Session	<ul style="list-style-type: none"> Practical training on models of systems and their components (not accessible for remote participants) Testing (for remote participants Tests will send by email)
30 September 2015, Wednesday	Time; Start time	Topics/Activities
09:00-12:15	Morning Session	<ul style="list-style-type: none"> Lecture 3: Radio frequency spectrum management for broadband access. Mr. Maksat Dzhylyshbaev Lecture 4: The issues of broadband to be submitted to WRC-15, Mr. Maksat Dzhylyshbaev
13:30-15:30	Afternoon Session	<ul style="list-style-type: none"> Lecture 5: Broadband-related legal and regulatory documents (ITU on broadband) Testing (for remote participants Tests will send by email)
1 October 2015, Thursday	Time; Start time	Topics/Activities
09:00-12:15	Morning Session	<ul style="list-style-type: none"> Lecture 6: Problems and solutions related to the practical implementation of

		broadband technology <ul style="list-style-type: none"> • Lecture 7: Dynamics and prospects of development of broadband access
13:30-15:30	Afternoon Session	<ul style="list-style-type: none"> • Lecture 8: Review of the technological capabilities of broadband access of Kyrgyztelekom, Vlad Tkachev • Lecture 9: Specific of implementation of IPTV streaming television service, Vlad Tkachev • Testing (for remote participants Tests will send by email)
2 October, 2015, Friday	Time; Start time	Topics/Activities
09:00-12:15	Morning Session	<ul style="list-style-type: none"> • Lecture 10: Analysis and comparison of wireless technologies (CDMA2000, WiMAX, Wi-Fi, LTE) and wired (GPON and FTTx) broadband access • Lecture 11: Optimization of the process of implementation of broadband access
12:15-13:15	Afternoon Session	<ul style="list-style-type: none"> • Final test (for remote participants Tests will send by email) • Closure ceremony

METHODOLOGY

The workshop will include Instructor-led presentations, case studies, group exercises and assignments.

All announcements for all events (materials, quizzes and forums) will be given several days prior to the event by the training tutor.

WORKSHOP COORDINATION

Training coordination: Ms. Anna Tutlis Leading specialist Advanced Training Department IET under KSTU Telephone/Fax: +996 312 54 29 42 Telephone: +996 709 22 61 81; e-mail: a.tutlis@mail.ru	Training coordination/ITU: Mr. Andrei Untila Telephone: +7 495 926 60 70 Fax: +7 495 926 60 73 Email: andrei.untila@itu.int
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REGISTRATION AND PAYMENT

Registration on ITU Academy Portal

Please note that to be able to register for the course you MUST first create an account in the ITU Academy portal at the following address:

https://academy.itu.int/index.php?option=com_hikashop&view=user&layout=form&Itemid=559&lang=en

Training Registration

Registration and payment should be made online at <http://academy.itu.int/>

When you have an existing account or created a new account, you can register for the training online at the following

link: https://academy.itu.int/index.php?searchword=technical%20organization&searchphrase=all&Itemid=378&option=com_search&lang=en

You can also register by following the steps below:

- Go to ITU Academy website home page
- On the upper hand corner, you will find search option
- Type the name of the course in the space provided and search
- When the course appears, select “book this course” and follow easy instructions to register.

Payment

A training fee of **USD 100** per participant is applied for this **face-to-face training** and of **USD 50** for **remote participation**.

1. On-line payment

It is encouraged to make payment via the online system using the link mentioned above for training registration

at: https://academy.itu.int/index.php?searchword=technical%20organization&searchphrase=all&Itemid=378&option=com_search&lang=en

However, please note that only the fee of USD 100 can be issued on-line. The training fee of **USD 50 will have to be made by bank transfer** by following the instructions at point 2. below.

2. Payment by bank transfer

Where it is not possible to make payment via the online system, a bank transfer may be done on the ITU Bank account shown below. In this case, it is **IMPERATIVE** that the applicant submits the following documents and information in advance to the ITU Coordinator:

- Proof of bank transfer payment
- Completed Registration Form
- Username and e-mail address as registered on the ITU Academy.

Failure to submit the above documents may result in the applicant not being registered for the training.

ITU BANK ACCOUNT DETAILS:

Name and Address of Bank:	UBS SA Case postale 2600 CH 1211 Geneva 2 Switzerland
Beneficiary:	Union Internationale des Télécommunications
Account number:	240-C8108252.2 (USD)
Swift:	UBSWCHZH80A
IBAN	CH54 0024 0240 C810 8252 2
Amount:	USD 50 or USD 100
Payment Reference:	CoE-CIS 14344 – P.40594.1.03