Report of

ITU CIS Centres of Excellence Face-to-Face Training
on Technical Organization of Broadband Access
Bishkek, Kyrgyz Republic, 29 September – 2 October 2015

The CIS Face-to-Face Training on Technical Organization of Broadband Access, organized jointly by the International Telecommunication Union and the Institute of Electronics and Telecommunications (IET) under Kyrgyz State Technical University, named after Iskhak Razzakov, as part of the Broadband Access programme under the auspices of the ITU Centres of Excellence for CIS, was held in Bishkek, Kyrgyz Republic from 29 September to 2 October 2015. The training was conducted in Russian.

The training was attended by **16 participants** representing Kyrgyz institutions: OJSC Kyrgyztelecom, State Communication Agency under the Government of Kyrgyz Republic, Institute of Electronics and Telecommunications (IET) under Kyrgyz State Technical University n.a.I.Razzakov, NURTelecom, OJSC Isatel.

The training was aimed at introducing the participants to goals, objectives, and basic principles of organization of broadband access, broadband-based services, as well as peculiarities of spectrum management and spectrum use for organization of broadband access.

Within the framework of the workshop the participants were equipped with understanding of:

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

At the official opening of the training on 29 September 2015, the participants were greeted by Mr. Baiysh Nurmatov, Rector, Institute of Electronics and Telecommunications under Kyrgyz State Technical University named after Iskhak Razzakov.

Lessons and practical trainings were delivered by Mr. Rinat Bakytov, Senior Lecturer, Radio Electronics Department of IET, who presented dynamics and prospects of broadband access development in the world; Mr. Albert Zhaparov, Chief Engineer, OJSC Kyrgyztelecom, who presented prerequisites of IMS building on the OJSC Kyrygztelecom networks; Mr. Maksat Dzhylyshbayev, who presented the radio frequency

spectrum management for broadband access and the issues of broadband access, which are considered by WRC-15; Ms. Tatyana Bolshakova, who presented the issues of the broadband access legal framework and broadband access related recommendations of the ITU; Mr. Vlad Tkachev, Director of Information Technologies, OJSC Kyrgyztelecom, who presented special aspects of streaming IPTV.

Third day of the workshop was entirely dedicated to practical exercises. In particular, the participants supervised by the IET professors, Mr. Rinat Bakytov and Mr. Kubanychbek Murzakmatov, had an opportunity to try in practice the work of WiFi, SOTSBI, and optical networks.

Unfortunately, due to local legislation specific, the State Communication Agency failed to pay in the Kyrgyz Treasury the invoice relating to participation in the training of their 3 staff.

The training was completed with final test, which showed good level of knowledge in the field covered by the training.