



**1st Meeting of the ITU Center of Excellence (CoE)  
Steering Committees for Europe and CIS Regions  
Warsaw, Poland, 7-8 February 2019**



**A.S. Popov Odessa National Academy of Telecommunications**

**Proposals for the training courses for 2019 year**

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# 1. «Organizational and technological aspects of providing e-Health services», May 16-17, 2019, Odessa, Ukraine

**Language:** The workshop will be conducted in English and Russian with simultaneous interpretation

**Priority area:** ICT Application

**Mode of delivery:** face to face (online participation is also possible)

**Training fees:** 150 USD

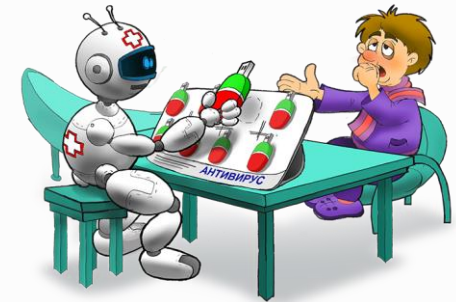
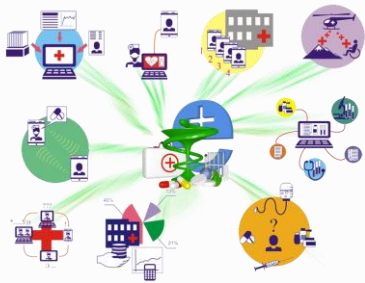
This workshop is targeted at technical staff, engineers, senior and mid-level management staff of telemedicine and telehealth service providers, medical institutions, clinics and hospitals, for doctors, for medical students. It is also of interest to employees of ministries and government healthcare authorities dealing with the issues of telemedicine network development and providing e-Health services.

The purpose of the Workshop is to give to the participants the information on

- provision of medical services using telemedicine networks, including the processing of digital medical data, personalized medical-service records, the electronic outpatient card, the electronic patient health record, and so on.
- determining the optimal variant of building telemedicine networks at the local, regional and national levels, taking into account the specificity of the countries in the region.
- construction of telemedicine networks, including the selection of hardware and software, as well as its installation and configuration.

## References

1. Series of specialized multimedia distance-learning courses on e-health  
«[eHealthcourses.online](#)» and «[e-Healthcourses.online](#)»



2. Development of recommendations for building telemedicine networks at the local (individual settlements), regional (areas, regions) and national levels, taking into account the specificity of the countries of the region

## 2. «Features of 5G technology implementation at the local (some towns), regional (district, region) and national level», May 24-25, 2019, Odessa, Ukraine

**Language:** The workshop will be conducted in English and Russian with simultaneous interpretation

**Priority area:** Digital broadcasting

**Mode of delivery:** face to face (online participation is also possible)

**Training fees:** 150 USD

This workshop is targeted at technical staff, engineers, senior and mid-level management staff of telecommunications service providers, telecommunication and broadcasting companies. It is also of interest to employees of Telecommunication Authorities dealing with the issues of broadband network development, audio and multimedia broadcasting.

The purpose of the Workshop is to give to the participants the information on modern and perspective technologies for mobile communications and broadband access. The Workshop will allow participants in future personally to assist introduction and development of 5G mobile communication and broadband access networks.

After the Workshop, participants will have an understanding of:

- main radio interfaces of 5G;
- technologies used at the 5G physical layer, in particular the technical data, the frequency bands, spectral efficiency and the main technologies used at the physical layer;
- principles of implementation of the 5G physical layer, in particular formation and processing of broadband signals;
- principles of 5G network implementation, in particular network architecture;
- principles of the frequency planning for 5G networks , in particular of the radio channel models for of mobile networks, principles of calculation of radio channel and coverage, finding of trade-off between "power efficiency" and "frequency efficiency" in modern broadband access systems;
- further evolution of 5G networks.

### **3. «Automation of broadband networks designing. Selecting the most appropriate solutions to build network», October 2019, Ashgabat, Turkmenistan**

**Language:** The workshop will be conducted in Russian

**Priority area:** Wireless and fixed broadband

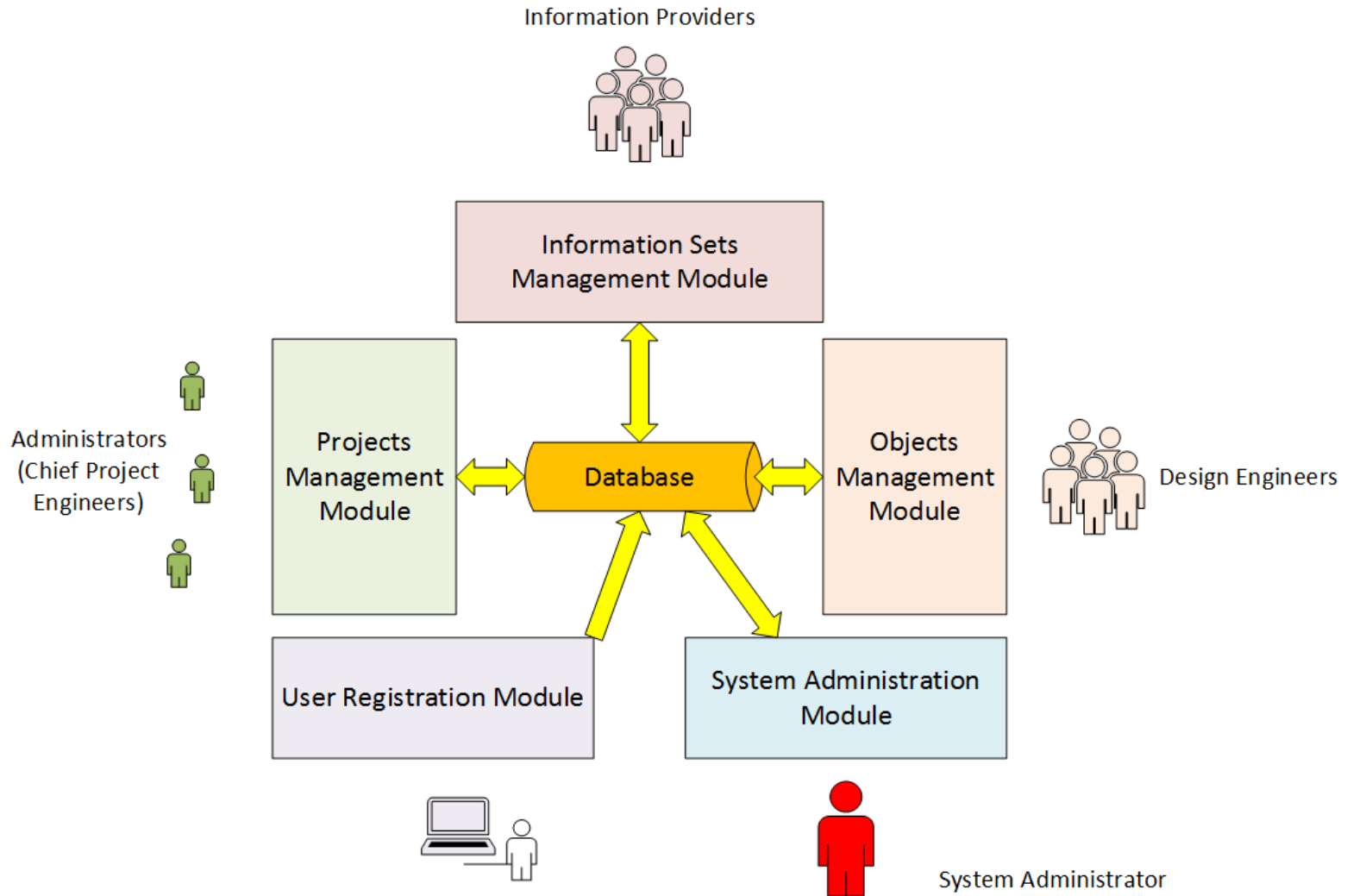
**Mode of delivery:** face to face (online participation is also possible)

**Training fees:** Free

This training aims to introduce participants to modern methods of telecommunication network designing and the principles of it's automation. It is focused on the aspects of broadband networks designing. Automated selection of the most appropriate solutions to build network using the BroadbandCalculator.online tool is considered. The training will allow participants to contribute personally to the implementation and development of telecommunication networks in future.

This training is targeted at technical staff, engineering staff of telecommunication providing companies, telecommunications and broadcasting companies. The training can also be of interest to employees of Telecommunication Authorities of countries dealing with the issues of broadband network development.

<https://broadbandcalculator.online>



# References

<https://broadbandcalculator.online>

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Welcome to the automated system of choosing the most promising solution for building broadband access networks.

Please log in to work in the system



Login (E-mail)



Password

Send

or sign up



#### 4. «The use of adaptive technologies to transmit video over radio channels», 7-8 November 2019, Odessa, Ukraine

**Language:** The workshop will be conducted in Russian

**Priority area:** Digital broadcasting

**Mode of delivery:** face to face (online participation is also possible)

**Training fees:** Free

This training is targeted at designers of digital broadcasting and wireless telecommunications systems in a variety of environments. The training will be also useful for specialists engaged in: provision of high-quality communication in urban terrain and high-quality color reproduction in various shooting and playback conditions; designing antenna systems and improving them by applying adaptive technologies; acoustic design of premises and provision of spatial sound in broadcasting systems; introduction of new systems of visual information compression. Also, the training may be of interest for the staff of organizations, enterprises and institutions dealing with the development of adaptive wireless communication systems, transmission of video content and information.



## References

The continue of **Using Adaptive Technologies to Transmit Multimedia Content over Radio Channels**, Odessa, Ukraine, December 14, 2018

**30** participants representing **17** organizations from **3** countries: Russia (Penza, Saint Petersburg), Uzbekistan (Tashkent), Ukraine took part in this course (7 face-to-face participants, 23 distant participants)

Lecture 1: **Usage of adaptive models of color transmission and reproduction in multimedia and related applications**

Lecture 2: **Development of compression methods from MPEG-1 to MPEG-4.HEVC and perspective ways to improve them**

Lecture 3: **Creation of the spatial sound effect using modern technologies of audio content encoding in broadcast systems**

Lecture 4: **Usage of adaptive antenna technologies in modern multimedia wireless communication networks**

Lecture 5: **Evaluation of the efficiency of cellular radio communication systems in urban conditions**



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# Thank you!

