



ASIA-PACIFIC TELECOMMUNITY

TRAINING COURSES UNDER EBC-J FOR 2021-2022





LIST AND SCHEDULE OF APT TRAINING COURSES UNDER EBC-J FOR 2021-2022

No.	Training Course	Schedule	Training Center
1	Training Workshop on Policy Development for High Level Officials (Face to Face)	14-17 Feb. 2022	JTEC, Japan
2	Planning of effective utilization of frequency spectrum and wireless communications technology trends (Online)	12-14 Jan. 2022	JTEC, Japan
3	Capacity Building for Big Data and AI for Smart City in South East Asia (Online)	17-19 Nov, and 14-15 Dec. 2021	JTEC, Japan
4	Online seminar on radio broadcasting technology useful as means of PPDR in a rural area like a landlocked area and small Island area (Online)	11-13 and 18 Jan. 2022	KDDIF, Japan
5	Cybersecurity Technologies How to Respond to Recent Risks of Incidents and Attacks (Online)	2-17 Feb. 2022	KDDIF, Japan
6	ICTs Accelerating Digital Transformation -Understanding Current Status of DX and Evolving ICTs- (Online)	8-17 Feb. 2022	BHN, Japan
7	Developing fundamental network planning skills in regional communities to bridge the digital divide (Online)	30 Nov. - 13 Dec. 2021	ITU-AJ, Japan
8	Radio Spectrum Management and Monitoring for Wireless Broadband Infrastructure and IoT (Online)	1-9 Dec. 2021	TELEC, Japan
9	Next and New Generation Mobile Communication Systems in 5G Era (Online)	22-24 Feb. and 1-3 Mar. 2022	YRP, Japan

	2021				2022							
Country	Nov.		Dec.		Jan.		Feb.		Mar.			
Japan		③		③		④	⑤	①		②		
			⑦				⑥					
			⑧									
									⑨	⑨		



Training Workshop on Policy Development for High Level Officials

No.1

• Duration : 14 – 17 February 2022
 • Organizer : APT & JTEC (Japan Telecommunications and Engineering Consulting Service)

Objectives

This program aims to provide a multifaceted perspective to those responsible for developing policy to overcome unprecedented Policy Issues. To do so, this program will use specific, urgent Policy Issues as themes, which participants will discuss together in terms of ways of understanding the issues and prescriptions to solve such issues. By comparing with facts of their respective countries, participants from different countries will also put their own country's Policy Issues into perspective, and recognize the importance of international cooperation. Based on the mutual understanding and personal relations and contacts developed through this opportunity, this program aims to contribute to the strengthening and deepening of cooperative relationships within this area in the future.

Target Trainees

- For the current fiscal year, training will be held with a focus mainly on ASEAN member countries.
- High level senior officials of government (e.g. Director General) or executives of public policy affairs in APT members.
Participants are expected that they are able to introduce and explain wide variety of current policy issues in their country and share their thoughts with others.



Overview

1. Mutual round table discussions for ICT related agency executives from different countries (Chatham House Rule*) (Theme (tentative) : “Accelerating Digital Transformation by supporting the APT Strategic Plan”)
2. Lectures by and exchange of opinions with prominent individuals and ICT related company executives from Japan
3. Exchange of opinions with ICT related company executives, etc.

(Reference) *Chatham House Rule
 A rule stating that participants may freely quote and disclose any information obtained during the meeting to the outside as long as the source of that information is not identified.
 Under this rule, this workshop is designed to allow the meeting participants to freely and actively express their opinions without being constrained by their own standing or position.



Syllabus

Date	Topic
Day 1	<ul style="list-style-type: none"> • Opening, Orientation • [S.1] Proceeding sessions and discussion subjects • Courtesy call • [S.2] Special Guest Speech • [S.3] Country presentations • Dinner Meeting
Day 2	<ul style="list-style-type: none"> • [S.4] Discussion/ Connectivity • [S.5] Discussion/ Innovation, SDGs
Day 3	<ul style="list-style-type: none"> • [S.6] Discussion/ ICT Security • [S.7] Discussion/ ICT Resilience • Special Guest Speech by Telecom & ICT Company • Dinner reception
Day 4	<ul style="list-style-type: none"> • [S.8] Discussion/ Capacity Building • [S.9] Summing up, Closing • Sight observation tour

[S.] : Session

Trainers (tentative)

High level officials, company executives, university professors and ICT engineers & researchers as follows will be invited for their lectures to the course.

- Vice Minister ICT (Courtesy visit)
- High level officials of ICT Ministry
- University prominent professors
- Executives from Telecom & ICT companies
- Leading ICT engineers & researchers
- JICA director class staff
- Other experts in the ICT fields

Training Organization

- Asia Pacific Telecommunity (APT)
- (Co-hosting) Japan Telecommunications Engineering and Consulting Service (JTEC)

JTEC, a nonprofit organization, was established in 1978, under the Government supervision with the initiatives of telecommunications and broadcasting industry and the finance entities, and has conducted international cooperation activities for more than 40 years.

Major activities are in the following fields.

1. Surveys and field trials related to Telecommunications and ICT
2. Training and Human Resources Development
3. Surveys and consulting services for development of Telecommunications and Broadcasting Infrastructure
4. Assistance of overseas ICT development by promoting international business of ICT industry

(And, the tops of hosting organizer as follows)

- Secretary General of APT
- President of JTEC

Planning of effective utilization of frequency spectrum and wireless communications technology trends.

No.2

• Duration: 12 – 14 January 2022

• Organization: Japan Telecommunications Engineering and Consulting Service (JTEC)

Objectives

The objectives of this course are to learn:

1. Policies to promote utilize the effective use of radio waves frequency
2. Latest trends in mobile communication technologies and services
3. Use case of Local 5G implementation by local government and private sector

Target Trainees

- Manager-class, such as Senior Managers, Deputy Directors.
- Core Engineers who is working on Policy Making, Planning, Promotion
- Radio Frequency management

Training Organization

- Japan Telecommunications and Engineering Consulting Service (JTEC)

JTEC, a nonprofit organization, was established in 1978, under the Government supervision with the initiatives of telecommunications and broadcasting industry and the finance entities, and has conducted international cooperation activities for more than 40 years.

Major activities are in the following fields.

1. Surveys and Field Trials related to Telecommunications and ICT.
2. Training and Human Resources Development
3. Surveys and Consulting Services for Development of Telecommunications and Broadcasting Infrastructure.
4. Assistance of Overseas ICT Development by Promoting International Business of ICT Industry.

Syllabus

Date	Topic
Day 1	• Radio Frequency Policy and allocation plan
Day 2	• Latest technology and solution to utilize effective use of frequency • Public LTE for disaster management network • Technology for media broadcasting
Day 3	• 5G radio regulation in Asia, E.U. and U.S. • Introduction of use case of local/private 5G

Trainers

We will invite experts from government, research institute and ICT solution provider.



Training Organization

• Japan Telecommunications and Engineering Consulting Service (JTEC)

JTEC, a nonprofit organization, was established in 1978, under the Government supervision with the initiatives of telecommunications and broadcasting industry and the finance entities, and has conducted international cooperation activities for more than 40 years.

Major activities are in the following fields.

1. Surveys and Field Trials related to Telecommunications and ICT.
2. Training and Human Resources Development
3. Surveys and Consulting Services for Development of Telecommunications and Broadcasting Infrastructure.
4. Assistance of Overseas ICT Development by Promoting International Business of ICT Industry.

Trainers (tentative)

We will arrange professional experts in the topics mainly from Japan and from the hosting countries.

Following is the candidates of trainers.

Mr. Naito Masakazu, Total Instructor and Main Coordinator of Workshop

Mr. Nishikawa Masashi, Expert of DX

Mr. Yasumura Shigehiko, Instructor for Hands-on training

We will invite the Japanese lectures Big Data/AI theory and best practices.





Capacity Building for Big Data and AI for Smart City in South East Asia (Online Training)

No.3

- **Duration:** 17– 19 November and 14 - 15 December 2021
- **Organization:** Japan Telecommunications and Engineering Consulting Service (JTEC)

Objectives

The objectives of this course are to learn the following knowledge, hands-on training and workshop for Smart City Initiatives.

- Basic knowledge, Policy and Best Practices of Big Data and AI
- Hands-on training and/or demonstration of Big Data and AI application
- Panel Discussion for using Big Data and AI for social issues in Smart City Initiatives

Overview

- DX and Big Data/AI technology for Smart City
 - Lecture on Digital Transformation (DX) and trends of Big Data and AI for Smart City.
- Data analysis by utilizing Big Data and AI
 - Demonstration of application of forecasting of time-series data, Mapping, image recognition
- Panel discussion on the use of Big Data and AI for Smart City

Target Trainees

- The trainees are assumed to be a director, manager or chief in that division in charge of planning and/or information management on disaster, transportation, environmental management, etc. in government organization, relevant institutes or universities in the South East Asian region.

Syllabus

Date	Topic
Day 1	Lectures on the following topics for all: <ul style="list-style-type: none">1) Policy and Smart City Activities2) Big Data and AI3) Digital Transformation to Smart City4) Best Practices in Japan and other countries
Day 2	Hands-on Training for Group A <ul style="list-style-type: none">1) Lecture, Demonstration of AI, Exercise
Day 3	Hands-on Training for Group B <ul style="list-style-type: none">1) Lecture, Demonstration of AI, Exercise
Day 4	Panel Discussion for use of AI for Smart City for Group A <ul style="list-style-type: none">• Case study and discussion (2 sets) Closing
Day 5	Panel Discussion for use of AI for Smart City for Group B <ul style="list-style-type: none">• Case study and discussion (2 sets) Closing

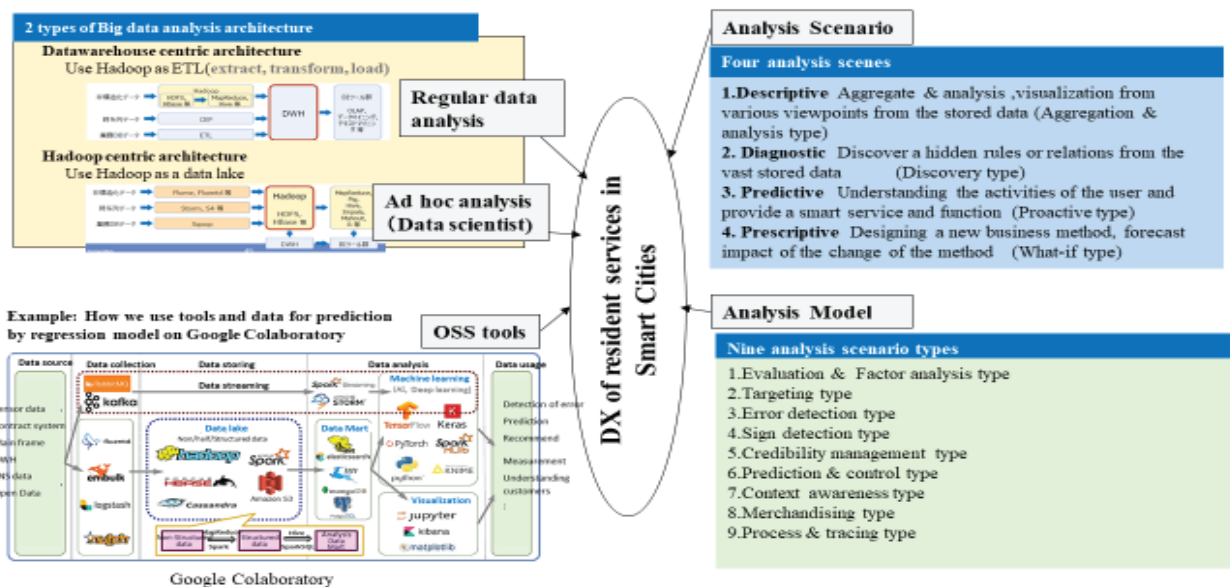
Trainees are selected for Group A and B in Day 2 to Day 5.

- The other qualification:
 - ▶ Capability of communication in English
 - ▶ Basic knowledge of using Windows PC and software such as Excel, Word, Power Point.



DX and Big data/AI Training for Smart City Initiatives

Through the training, we will provide knowledge about digital technology and tools in the DX era, and important analytical viewpoints. The following are typical ones. In the near future, we would like to utilize this knowledge and experience to support the promotion of smart cities in Southeast Asian countries and contribute to improving the DX capabilities of smart city initiatives.



Training Organization

- Japan Telecommunications and Engineering Consulting Service (JTEC)

JTEC, a nonprofit organization, was established in 1978, under the Government supervision with the initiatives of telecommunications and broadcasting industry and the finance entities, and has conducted international cooperation activities for more than 40 years.

Major activities are in the following fields.

1. Surveys and Field Trials related to Telecommunications and ICT
2. Training and Human Resources Development
3. Surveys and Consulting Services for Development of Telecommunications and Broadcasting Infrastructure
4. Assistance of Overseas ICT Development by Promoting International Business of ICT Industry

Trainers (tentative)

We will arrange professional experts in the topics mainly from Japan and from the hosting countries. Following is the candidates of trainers.

Mr. Naito Masakazu, Total Instructor and Main Coordinator of Workshop

Mr. Nishikawa Masashi, Expert of DX

Mr. Yasumura Shigehiko, Instructor for Hans-on training

We will invite the Japanese lectures Big Data/AI theory and best practices.



Online seminar/radio broadcasting technology useful as means of PPDR in a rural area like a landlocked area and small Island area

No.4

- Duration: 11 -13 and 18 January 2022
- Organization: KDDI Foundation (KDDIF) Japan Telecommunications Engineering and Consulting Service (JTEC)

Objectives

This course includes the following items of plan.

- To understand the essential function of PPDR utilized broadcasting
- To develop understanding of the EWBS from various broadcasting technics usage.
 - MW, FM radio and Digital television
- To develop understanding the dissemination of local area information to evacuation center after disaster.
- To discuss policy and regulation aspect of PPDR utilized broadcasting in your rural area of country at mini presentation.



Syllabus

Date	Topic
Day 1	Orientation Mini presentation (Country report) Opening seminar #1 Basic understanding of EWBS
Day 2	#2 EWBS Technology MM/FM radio #3 EWBS Technology Television
Day 3	#4 Role of Broadcasting in Disaster Reduction #5 Running of Community FM radio service
Day 4	#6 The issues of Community FM radio service Closing session



Overview

This course can be defined as an online seminar/workshop on developing ideas of the infrastructure of the digital divide resolution and PPDR by utilizing radio broadcasting ICT fields as follows;

- 1.Required role of broadcasting when disaster moment in response to disaster risk mitigation for PPDR
- 2.Basic understanding of EWBS technology
- 3.Case study in Radio/Television broadcasting
- 4.Dissemination of local/area information to evacuation centers after a disaster
- 5.Case study and introduction of community FM broadcasting enterprise in Japan



This course covers sharing knowledge with Japanese experts. It will help to build a broadcasting ICT in the area with further promotion of its utilization.



Target Trainees

An applicant should be official in charge /have a special interest in planning, promotion, on, expansion, and PPDR operation of disaster management systems using broadcasting ICT in Authorities deals with Disaster Management ,or Related Organizations.

- ◆ The administration official of
 - Broadcasting
 - Disaster privation management
 - Radio regulatory
 - USO
- ◆ State-run / public / private broadcaster
- ◆ Telecom Operator interested in EWBS broadcasting technology



Training Organization

KDDI FOUNDATION:

Overseas Training Program has started in 1957.

APT training has started in 1983, 38 years of experience.

Reference URL: <http://www.kddi-foundation.or.jp/english/>

Japan Telecommunications

Engineering and Consulting Service (JTEC):

Overseas Training Program has started in 1978.

APT training has started in 1983, 38 years of experience.

Reference URL: <http://www.jtec.or.jp/english/>



Trainers

KDDI FOUNDATION:

Mr. Kazunori FUJITA / Deputy director

Mr. Youichi UCHIYAMA / Senior advisor

Ms. Ikuko WATANABE / Newscaster

Mr. Tateki NISHI / President of broadcaster

Community FM Radio SHIBUYA RADIO

Mr. Kiharu TERADA / Specialist

Disaster prevention utilizing FM radio

Japan Telecommunications Engineering and Consulting Service (JTEC):

Mr. Masato TAMURA / Vice president

Mr. Yasuji SAKAGUCHI / Director Broadcasting



Internet
attack

protection



Mobile
devices

Cybersecurity Technologies - How to Respond to Recent Risks of Incidents and Attacks

No.5

- Duration (Tentative schedule) : 2 – 17 February 2022
- Organization: KDDI Foundation (KDDI-F)

Objectives

The objectives of this course are

- To understand basic function of CSIRT ;
- To understand various methods of attacks and how to detect attacks made on security vulnerabilities;
- To understand the operation of Security Operation Centers;
- To understand current legal/institutional situation of privacy protection in Japan; and
- To be able to consider risk elimination measures.



Syllabus

Date	Topic
Day 1	Online meeting on Zoom Opening session with MIC Official Course Orientation by KDDI Foundation
Day 1 to Day 15	E-learning Taking recorded lectures and Comprehension tests by trainees
Day 7	Online meeting on Zoom Workshop; Idea for Nurturing Organizations and Human Resources That Support Information Security by Fujitsu Learning Media Ltd.
Day 9	Online meeting on Zoom Lecture; Incident Response by LAC Co., Ltd.



Date	Topic
Day 14	Online meeting on Zoom Lecture; Introduction to cybersecurity -Knowledge of DDoS- by KDDI
Day 15	Online meeting on Zoom Workshop; Country Report Presentation by trainees
Day 16	Online meeting on Zoom Closing session

Overview

This course is designed

- To support trainees to obtain knowledge of cybersecurity, which is becoming more important for broadband communications and IoT deployment.
- To understand various methods of attacks and to detect attacks made on security vulnerabilities, demonstrations/practices are provided.



In addition to cybersecurity technologies, trainees are able to obtain concise knowledge on current legal and institutional situation of privacy protection in Japan.



Target Trainees

An applicant should

- (1) be a university graduate or equivalent with working experience of more than 3 years in the field of telecommunications business,
- (2) be engineers in telecommunications carriers, or telecommunications regulatory officials working at the government,

- (3) have sufficient command of speaking and writing English,
- (4) not be serving in military, and,
- (5) be in good health both physically and mentally to undergo the training.



Training Organization

KDDI FOUNDATION:

Overseas Training Program has started in 1957.

APT training has started in 1983, 38 years of experience.

Reference URL: <http://www.kddi-foundation.or.jp/english/>



Organizers








KDDI FOUNDATION:

Mr. Shinji YOSHIDA / Senior Adviser

Mr. Masazumi INOUE / Senior adviser

Ms. Yuiko FUJIMOTO / Freelance Interpreter



	Trainers	Organization
1	Mr. Takato MORI	Ministry of Internal Affairs and Communications of Japan (MIC) 
2	Mr. Makoto TAKEMA	National center of Incident readiness and Strategy for Cybersecurity
3	Mr. Nobuhiro HIKICHI	ICT-ISAC Japan 
4	Mr. Atsushi SHIRAHATA	Japan Data Communications Association 
5	Mr. Joey MANALANG	LAC Co., Ltd. 
6	Mr. Shigeaki KAWAI	Fujitsu Learning Media Ltd.
7	Mr. Shoma TANAKA	KDDI Research Inc. 
8	Mr. Haruo TAKASAKI	
9	Mr. Takumi SATOU	KDDI Digital Security Inc. 
10	Mr. Yuta MIURA	KDDI Corp. 
11	Ms. Yurie KAWATANI	
12	Mr. Keita SHIMIZU	

(Note) Trainers are subject to change



ICTs Accelerating Digital Transformation

No.6 • Duration: 8 – 17 February 2022
 • Organization: BHN Association

Objectives

This training course aims to showcase the leading DX projects empowered by ICTs and to develop skills of ICT personnel in the region. The course is designed:

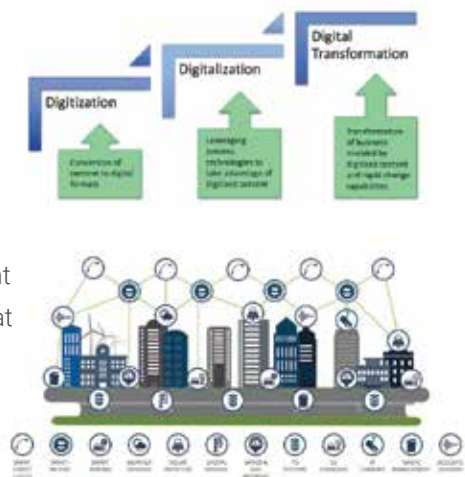
- to help participants grasp the current status and perspective of DX in the region and worldwide,
- to give lectures and provide illustration of core ICT services that spur or catalyze digitalization and DX of the economy and society, and
- to explain the importance of infrastructure system and cyber security in an era of DX.

Syllabus

Date	Topic
Feb.8	Course Opening / ICT Policy & Initiative <ul style="list-style-type: none"> • Opening • Welcome Address • ICT Policy / Initiative in Japan
Feb.9	Overview on DX <ul style="list-style-type: none"> • Present Status of Digital Transformation • Digital Transformation and its Challenge in Asia-Pacific Region
Feb.10	<ul style="list-style-type: none"> • Digital Transformation - on Resilience • Smart Cities with Digital Twin Computing
Feb.11	<ul style="list-style-type: none"> • Digital Transformation: Knowledge Society empowered by Data, Networking and Actuation
Feb.14	ICTs Accelerating DX <ul style="list-style-type: none"> • ICTs for Healthcare • Online Corporate Visit: Disaster Prevention and Mitigation by IoT

Date	Topic
Feb.15	<ul style="list-style-type: none"> • ICTs Agriculture • Online Corporate Visit: ICT Agriculture Project • Case Study: BHN's International Cooperation through ICT
Feb.16	Infrastructure for DX <ul style="list-style-type: none"> • ICTs Infrastructure for Digital Transformation • Online Corporate Visit: Network Operation/ Maintenance
Feb.17	<ul style="list-style-type: none"> • Cyber Security • Closing

The road to transformation



Overview

- This training course, "ICTs Accelerating Digital Transformation – Understanding Current Status of DX and Evolving ICT – " is designed to give lectures on evolving ICT services that spur or catalyze digitalization and DX. This course aims to show examples of leading DX projects empowered by ICTs.



The World is Facing Big Challenges



Target Trainees

- Person in charge of marketing / planning / strategy
- Person in charge of middle management

Training Organization



BHN Association
Telecom for Basic Human Needs



URL

- <https://www.bhn.or.jp/english/about/generalinformation/> [Organization Chart]
- https://www.bhn.or.jp/english/about/bhn_sdgs/ [BHN and the SDGs]
- https://www.bhn.or.jp/official//bhn_hrd/ [APT Training Course FY2020: 'ICT Services to Achieve SDGs and Digital Transformation']

Trainers



Prof. S. Kano,
Waseda U.



Prof. S. Zurcher,
Kansai Gaidai U.



Prof. Y. Inoue
CEO, Know et Nova Co., Ltd.



Dr. S. Mori,
IISEC



Mr. S. Umino,
S. Advisor, NTT Comware



MIC (Ministry of Internal Affairs and Communications)



NTTDOCOMO



NTT East



BHN Association



Developing fundamental network planning skills for E-applications in regional communities, to bridge the digital divide

No.7 • Duration: 30 November – 13 December 2021
• Organization: The ITU Association of Japan

Objectives

The objectives of this course are to:

- grasp their own country's problems and obtain skills to propose a specific plan to overcome the digital divide in their own country,
- understand the importance for their governments to have a clear policy in network construction, and
- get skills to propose/evaluate solutions for various problems in their own country.

Syllabus

Date	Topic
Day 1	Opening Ceremony and Country Report Presentation
Day 2	Orientation and Lectures on Summary of Network Planning Japanese country report
Day 3	[No Program](Homework)
Day 4	Group Discussion & its Presentation on Drill 1 + Homework
Day 5	Group Discussion & its Presentation on Drill 2 + Homework

Date	Topic
Day 6	Group Discussion & its Presentation on Drill 3 + Homework
Day 7	Group Discussion & its Presentation on Drill 4 + Homework
Day 8	Group Discussion & its Presentation on Drill 5 + Homework
Day 9	[Site Visit](Virtual) + Homework
Day 10	Action Plan Presentation and Closing ceremony

* Drills 1-5 provide typical examples of areas with various geographic characteristics whose problems can be solved using appropriate networks.

Overview

In this training course, trainees will learn:

- how to analyze various conditions, such as geographical, and identify the issues in the communications and information field for a region, they choose in advance, of their respective countries,
- how important for their governments to have a clear policy in network construction, and
- how to design an appropriate network for the region,



so that they obtain knowledge and experiences to plan necessary ICT services and e-application, and to solve the issues for developing ICT environment and overcoming the digital divide in their country, through online lectures, presentations, drills, e-learning and (virtual) site visit.

Target Trainees

- Director or equivalent class of promoter engaged in information communications or digital divide improvement of the government or a relevant government institution



Last year(2019)'s training course

Training Organization

- The ITU Association of Japan (ITU-AJ) has been conducting training programs organized by the Japan International Cooperation Agency (JICA) and the Asia-Pacific Telecommunity (APT).
- Recent activities include:
 - (1) Training courses, APT
 - Developing of fundamental network planning skill for e-applications in regional community to bridge the digital divide: FY2019 and 2020
 - Development of practical problem-solving skills: FY2017 and 2018

(2) The Knowledge Co- Creation Program courses on ICT standardization, JICA Improving ICT Policy Promotion Skills Utilizing Standards – overcome challenges by deployment of ICT infrastructure corresponding to the situation - :
FY2016-2020

- https://www.ituaaj.jp/?page_id=310 =



Radio Spectrum Management and Monitoring for Wireless Broadband Infrastructure and IoT

No.8 • Duration: 1 - 9 December 2021
• Organization: Telecom Engineering Center (TELEC)

Objectives

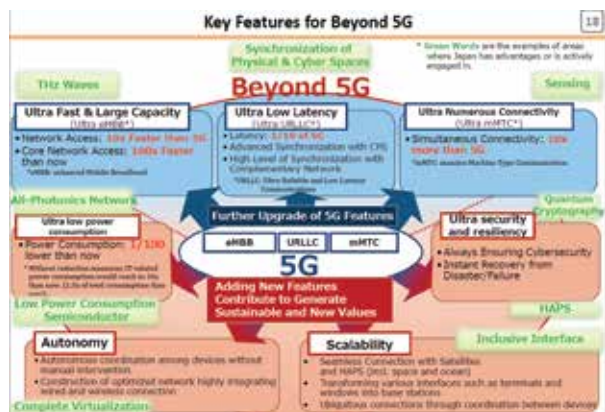
The objective of this training course is to raise the level of participants' administrative and technical knowledge of radio spectrum management and radio monitoring including the latest technologies for wireless broadband infrastructure and IoT.

Syllabus

Date	Topic
Day 1	Opening Ceremony, • Keynote - Spectrum Policy in Japan for Broadband Age
Day 2	• Radio Spectrum Management in the Broadband and IoT • Present Situation of 5G Mobile Communications in Japan • Present Situation of Radio Monitoring in Japan
Day 3	• Radio Monitoring Facilities • International Monitoring • Cases of Radio Interference from Peculiar Interfering Sources • Measurement Test of Purchased Radio Equipment



Date	Topic
Day 4	• Presentation from Each Country
Day 5	• Spectrum User Fee System, • WRC (World Radiocommunication Conference) and APG (APT Conference Preparatory Group for WRC))
Day 6	• Telecommunications operator dealing with latest technology for wireless broadband infrastructure • Conformity Certification System for Radio Equipment • Measurement Techniques for Radio Equipment
Day 7	• Exchange Opinions • Follow-up for Lectures, Closing Ceremony



Overview

- The trainees will learn the knowledge on radio spectrum management and radio monitoring such as frequency planning, frequency assignment, licensing, supervision of radio stations, detection of interference sources or illegal radio stations and World Radiocommunication Conference, and measurement techniques for radio equipment through the classes
- Actual radio monitoring facilities will be introduced from the Administration.



- In the country report session, they will introduce their situation on radio spectrum management and radio monitoring.
- Telecommunication operator will introduce their services and techniques.

Target Trainees

- Regulators and policymakers of radiocommunication
- Radio monitoring organization
- Engineers of telecommunications operator
- Radio equipment conformity certification service provider

Training Organization

TELEC



- TELEC has been experienced to conduct APT training course since 1993 and has been conducting "Radio Stations Administration and Radio Equipment Certification" since 2003 and "Radio Spectrum Management and Monitoring for Wireless Broadband Infrastructure" since 2013

Radio Monitoring Systems

3

- We have developed radio monitoring systems, named "DEURAS-D", "DEURAS-M", since 1993.

DEURAS-D

DEURAS-M

DEURAS: Detect Unlicensed Radio Station
<http://www.tele.soumu.go.jp/e/admin/monitoring/moni/type/index.htm>

- Telecom Engineering Center (TELEC) has more than 40 years of experience and achievements since its establishment in 1978. Keeping pace with a broad range of fields, such as technical regulations conformity certification, calibration of measuring instruments and various testing is also its strong point.

8 5G OTA(Over The Air) Test System(3/3)
Summary of the test system

9.4 SAR(Specific Absorption Rate) measuring system

9.5 PD(Power Density) measuring system

- TELEC has also been contributing to the HRD project of APT and has contributed to the JICA training course of "Radio Equipment Certification" for many years



Next and New Generation Mobile Communication Systems in 5G Era

No.9 • **Duration:** 22 -24 February and 1-3 March 2022
 • **Organization:** Yokosuka Telecom Research Park, Inc.
 (In cooperation with MIC, ARIB, and YRP R&D Promotion Committee)

Objectives

- To learn vast knowledge about technical aspects, applications, and use cases of next generation and new generation mobile communication systems (3G, LTE, BWA, 4G, and 5G) including Intelligent Transport System(ITS) and IoT radio systems so that participants will be well-prepared for the planning of these systems in their own countries
- To nurture the human network of the people concerned in this area that should be another important factor for the smooth achievement of dissemination and advancement of mobile telecommunication technology in Asia-Pacific countries

Syllabus

Date	Topic
Day 1	<ul style="list-style-type: none"> • Opening Session, Orientation • 5G Initiatives in Japan • Standardization Activities on 5G
Day 2	<ul style="list-style-type: none"> • Standardization activities on ITS • Country Report P5resentation
Day 3	<ul style="list-style-type: none"> • Telecom operators trials for future mobile communication
Day 4	<ul style="list-style-type: none"> • Introduction of 5G use cases • Introduction of vehicle to X communication technology
Day 5	<ul style="list-style-type: none"> • IoT Testbed and Smart City activities in YRP • Overview of NICT Wireless Research Center and online technical tour • Closing



Overview

This training course covers wide range of topics related to the next and new generation mobile communication systems including ITS and IoT radio systems, e.g. LPWA radio system being developed toward the realization of 5G era.



Target Trainees

Officers in charge of radio policy or land mobile communications



**Photos are from training courses in FY2018 and FY2019*

Training Organization

Yokosuka Telecom Research Park, Inc.

In cooperation with

- ✓ Ministry of Internal Affairs and Communications (MIC)
- ✓ Association of Radio Industries and Businesses (ARIB)
- ✓ YRP R&D Promotion Committee



Yokosuka Research Park (YRP) is an R&D cluster specially focused on radio and communications technologies opened in October 1997 in the southern suburban area of Yokosuka City, Kanagawa Prefecture, Japan. Being easily accessible from Tokyo, the area is surrounded by beautiful nature of Miura Peninsular providing quiet environment suitable for R&D, and wide ranges of R&D activities are conducted by national and private research institutes and companies gathering here.

Yokosuka Telecom Research Park, Inc. is a semi-public company administrating the YRP area with Yokosuka City and has been organizing the APT Training Course in cooperation with YRP R&D Promotion Committee, an affiliate member of APT.

Trainers

Lectures will be given by MIC officials, specialists of the standardization activities in ARIB, researchers of telecom operators, vendors, and national and private research institutes, who are specialized in mobile communication technology.

