ミャンマーからの研修員(政府、大学関係者等)を受け入れ
(平成 23 年度 JICA 青年研修「情報通信技術政策」コース)

　平成 24 年 2 月、当協会は、国際協力機構(JICA)からの委託によりミャンマーから研修員 20 名(政府、大学関係者等)を受け入れ、青年研修「情報通信技術政策」コースを実施しました。

　青年研修事業とは、JCIA(国際協力機構)が主催する研修事業で、開発途上国の将来を担う青年層(20 歳〜35 歳程度)を日本に招き、それぞれの国で必要とされている専門分野について日本の経験、技術の基礎的理解を付与する研修を行い、将来の国づくりを担う人材の育成に協力する事業です。今回実施した研修の概要は、以下のとおりです。

<研修概要>
1. 研修タイトル：JICA 青年研修「情報通信技術政策」コース
2. 対象国：ミャンマー
3. 研修員数：20 名 （通信主管庁職員、大学教授、講師等で構成）
4. 研修日程：2012 年 2 月 6 日から 2 月 20 日 （2/5 来日　2/21 帰国）
5. 研修場所：主に幡ヶ谷の JICA 東京(東京国際センター)、その他　都内施設見学
6 主催団体：国際協力機構(JICA)
7 実施機関：一般財団法人 日本 ITU 協会

<各研修員へのインタビュー>
　研修の最後に、研修員に「本研修で何を学びましたか？」という質問を行いました。各研修員からの回答を以下のとおり掲載いたします。

　なお、本人の希望で、情報開示ができない項目については、記載しておりませんので、ご了承ください。

以　　上

1	Interview Sheet	
This report aims to present my knowledge through this training program. According to the course relating ICT policy, I have learnt 　-How to solve the digital divide in developing countries by using case study of ICT projects in Papua New Gunea and Cambodia 　-How to prevent disaster using ICT 　-How to recover Wireless Access Systems in Japan after Disasters happened in last year 　-How to set Universal Service Obligation Fund 　-How to build Smart Grid/Smart City, Standardization of smart grid in ITU and -How will be the spread usage of ICT in future		Photo 本人の希望により掲載せず
Name	Ms. Aye Su Hlaing	
Organization	本人の希望により掲載せず	
Title	本人の希望により掲載せず	

2	Interview Sheet

I have acquired the knowledge about ICT strategy and policy of Japan. In details, I learned about wireless access systems used in disaster recovery operation, ICT development strategy for rural community and latest trends of ICT companies. The most impressive one is the world's fastest supercomputer Fujitsu "K" being able to handle over 10 quadrillion calculation per second. "K" might be expected to help the government predict earthquakes and other natural disasters, analyze climate change, develop new drugs, explore outer space, etc. (Ref:http://techcrunch.com/2011/11/03/fujitsu-k-the-worlds-fastest-supercomputer-is-now-even-faster/). I think "K" is the great success of Japan and a hope for Japan's brilliant future. Another one is smart grid and smart city project of NTT Docomo using cloud computing system which is a challenge for upgrading the Japan society. Furthermore, people from different countries of the world can be able to gather in the same place if the plan of NTT Docomo Future Station is successfully finished. Data storage technique in Japan is also admirable seeing the data storage system of Tokyo No. (5) Data center of NTT communication. Data are reliable to store at there because the data center building is constructed to resist the natural disaster not to lose data and facilities for them. Then, we can see security management for data is good in Japan with the reference of findings in Security Operation Center (SOC) of NTT Communication Corporation. The advance techniques of authentication system that support for security are finger vein authentication used in SOC and palm vein authentication developed by Fujitsu. The next one that meets the current need of our country is ICT development strategy for rural area for narrowing digital divide. Telecenter (ICT pilot project) and e-agriculture would be effective for rural area of developing countries. In my opinion, ICT innovation of Japan is very helpful and a hope for the future of human society.	Photo 本人の希望により掲載せず

Name	Ms. Htway Htway Hlaing
Organization	本人の希望により掲載せず
Title	本人の希望により掲載せず

3	Interview Sheet

By studying the current research of the companies, I have gained the knowledge about the latest trend of ICT technology and wireless access systems used in disaster recovery operations in Japan. And, I have acquired the effective knowledge about the importance of wireless technology based telecommunication systems for narrowing digital divide and how to utilize it to communicate and participate the social community such as meeting and distance education from anywhere. Moreover, I have learned about the Smart Grid and Smart City project that can promote the living standard of Japan.	Photo 本人の希望により掲載せず

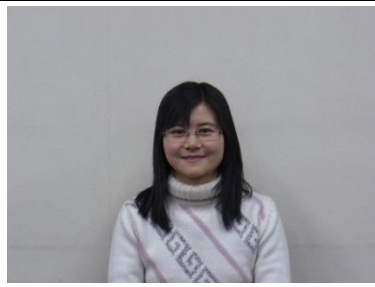| Name	Ms. Su Wai Phyo
Organization	本人の希望により掲載せず
Title	本人の希望により掲載せず

4	Interview Sheet

By studying the current research of the companies, I have gained the knowledge about the latest trend of ICT technology and wireless access systems used in disaster recovery operations in Japan. And, I have acquired the effective knowledge about the importance of wireless technology based telecommunication systems for narrowing digital divide and how to utilize it to communicate and participate the social community such as meeting and distance education from anywhere. Moreover, I have learned about the Smart Grid and Smart City project that can promote the living standard of Japan.	Photo 本人の希望により掲載せず

Name	Ms. Ei Ei Myat
Organization	本人の希望により掲載せず
Title	本人の希望により掲載せず

5	Interview Sheet

According to the Japan's Infrastructure, I have gained the latest technology knowledge of Wireless Access Systems used in disaster recovery operations, the important roles of Telecommunication that is an essential element in the economic and social development to provide the solution of Digital Divide and Smart Grid and Smart City project that promote the living standard of Japanese. Moreover I also obtained the latest trend which is all-in-one e-blackboard that includes Touch-panel and plasma display set serving the distance learning.	Photo 本人の希望により掲載せず

Name	Ms. Khaing Pyae Pyae Nyein
Organization	本人の希望により掲載せず
Title	本人の希望により掲載せず

6	Interview Sheet

1. The utilization of ICT is necessary in the field of education. 2. NTT Company has a plan to develop e-education center to promote self-learning style through the utilization of ICT. 3. The construction and operation of cloud computing is necessary to strengthen the technology for leveraging network resource. 4. IPV6 migration is important as we are running out of IPv4 address. 5. Communication technology infrastructure is essential element for getting global information to the society.	

Name	Ms. Wint Thida Zaw
Organization	Ministry of Science and Technology
Title	Lecturer/University of Computer Studies, Mandalay

7	Interview Sheet

The first new knowledge is to build Data Centre (such as Tokyo No. 5 Data Centre) to safety store the

most important data of our country.

The second new knowledge is to motivate the self learning education style in university students.

Name	Ms. Zar Zar Linn
Organization	Ministry of Science and Technology
Title	Lecturer/University of Computer Studies, Mandalay

8	Interview Sheet

I have known some knowledge about the technologies and systems currently utilized and researched in Japan through this program.

- effective IT management communication and solutions to worldwide customers with the help of internetworking technologies

- set up security operation center to protect and solve threats and cyber attacks so that everyone can safely utilize ICT.

- establishing the data centers with necessary facilities to link ASEAN countries via Grid network.

- Since 2010, smart cloud strategy had been established in Japan. As a result, cloud services are now widely spread in public and private sectors.

Name	Ms. May Thu Aung
Organization	Ministry of Science and Technology
Title	'Lecturer/Information and Communication Technology Training Institute, Yangon

9	Interview Sheet

- From development strategy of ICT, I study the use of ICT in education. It is essential the use of ICT in education.
- The presence problem of our country is that the use of computer and the knowledge about internet is very low in every house and state school (especially rural area).
- To overcome this problem, we try to use the computer with our language. If so, we can use the computer more realizing and understanding. Moreover, practical training and using internet and studying the technology of internet is necessary. And then, we must build own website of our organization and universities because we realize that the website is the entrance of ICT. Finally, we try to be used of ICT in many roles.

Name	Ms. Chit Nilar Win
Organization	'Ministry of Science and Technology
Title	'Lecturer/University of Computer Studies, Yangon

10	Interview Sheet

the new knowledge
- Spectrum Management Policy in Japan
- UHF-WiFi device trail NuelNET
- Considerations to set Universal Service Obligation Fund

the additional knowledge
- NTT Communications' approach in Asia and our ICT vision in the future
- Movement of Standardization of ICT "Smart Grid & Smart City"
- Method of Project Assessment and Application
- ICT Development Strategy

Name	Ms. Kay Khaing Win
Organization	'Ministry of Science and Technology
Title	Lecturer/Faculty of ICT, University of Technology (Yangon Cyber City)

11	Interview Sheet

As Japan is a well-developed country in ICT technology, the improvements in ICT are very impressive. I learnt that Research and Development activities are very important for Japan's ICT development. I found out that Japan become independent in technology because of research and development. And I also found out that Japan ICT policies are effective and in accordance with the needs of ICT industry. I have acquired much knowledge from this course, the following are some of them:

Photo

本人の希望により掲載せず

From the Lectures

1. Liberalization encourages the competition which is the key of the progress
2. Competition should be allowed to extend within a framework of a national strategic plan so that the digital divide can be narrowed.
3. Preliminary surveys are necessary for the successful implementation of tele-center in rural area to maintain sustainability.
4. Basic policies for securing spectrum are already considered toward 2015 and 2020
5. The effective use of unused radio spectrum between TV station (White space) and the usage of White-Space such as Wide Area Broadcasting is very useful during disaster
6. The role of wireless access communication system in Japan
7. "Leap Frog" effect can be considered as an advantage for the developing countries.
8. Funding for Telecom infrastructure (Universal service and Universal service fund) should be considered in the policy implementation
9. Very beneficial concept about Project Assessment Method, Project Cycle Management, Project Design Matrix, FIRR and EIRR.
10. The Action Plans that use ICT as a tool to meet the Millennium Development Goals
11. Innovative ideas should be created for rural development by using ICT as a tool
12. The role of ICT in implementation of Smart Grid and Smart City
13. Study Group and Focus Group of ITU and their responsibilities for the standardization

From the study tours

1. Every ICT companies in Japan are using Cloud technology effectively and widely
2. The projects such as distance learning, voter registration, e-Education for children , National Project Management System are implementing in developing countries by companies
3. Every company are contributing their efforts to the Disaster Prevention of Japan
4. The companies are trying to create innovative products to support the society (such as X-Info Table, Connexive Agricultrual, Super Computer)
5. Monitoring, controlling and Protecting Cyber Attack are the active area of the ICT industry
6. Green ICT is also one of the important issues of ICT industry.

Name	Ms. Seint Seint Aye
Organization	Ministry of Telecommunications, Posts and Telegraphs
Title	Assistant Engineer, Telecommunications & Postal Training Center

12	Interview Sheet

Question: What I learned in this training course?

ICT , especially mobile communications , is the key to solve the digital divide and the driving force for the development of a country as ICT industry has been playing an important role in GDP growth of Japan.

The competition through privatization and then deregulation has lead to rapid evolution of ICT infrastructures of Japan.

Disaster resistant ICT infrastructures for secure communication are also worth to be encountered as many different forms of disasters are being faced in all parts of the world.

As a country becomes developed it is needed to prepare to have efficient use of frequencies in order to respond to new frequency demand.

Cyber attacks and information security threats are increasing for almost all new ICT technologies based on IP so it is necessary to develop plans , human resources and technologies for responding to them.

Research and development in ICT technologies is one of the reason to ensure the sustainable growth of Japanese ICT products.

Name	Mr. Tin Kyaw Win
Organization	Ministry of Telecommunications, Posts and Telegraphs
Title	Assistant Engineer, Work & Inspection Dept.

13	Interview Sheet

New ICT facilities for human society in current and future development from the excursion trip of NTT DoCoMo, NEC innovative world, Fujitsu Net community, etc.
Latest wireless technologies and appliances.
Flexibility of ICT policies .
Activities of telecommunication carriers based on the activities of NTT communication, NEC.
Super Wi-Fi System (UHF) for the creation of longer-distance wireless connections.
Method of project assessment and its application, Project matrix design, Project cycle Management, and Flow of feasibility study.

Photo
本人の希望により掲載せず

Name	Ms. Tin Thu Hlaing
Organization	Ministry of Telecommunications, Posts and Telegraphs
Title	Assistant Engineer, Overseas Communications, Yangon

14	Interview Sheet

I have known about the current mobile phone system(LTE) in Japan, some useful policies(For Myanmar) on ICT , great competitions of Telecom companies and the role of Regulator In Telecom system.
I also have acquired knowledge how to raise the Rural area by ICT.
I have also known about X-info table and applying the ICT on Agricultural sector (eg. Visualization) from the study visit of NEC.

Name	Mr. Naing Win Tun
Organization	Ministry of Telecommunications, Posts and Telegraphs
Title	Assistant Engineer, Mobile Communication Dept.

15	Interview Sheet

The important role of Data Center for the development of ICT and coming cloud platform
-Rural communications system is the one of the factors for a developing country
- Wireless communication is the best solution for digital divide in rural area
-SOC (security operation center) , NOC (network operation center)
    Centralized management system
    The effective ways to monitor, operate and control all stations through the nation.

Name	Mr. Tint Khine
Organization	Ministry of Telecommunications, Posts and Telegraphs
Title	Junior Engineer 2, Information and Technology Dept.

16	Interview Sheet

I get the knowledge of news technical for ICT role.
 In NTT Network Operation Center, they are monitering the traffic and solve the problam in realtime.
 Mobile phone system is the main attributes of digital divide inusirueal area.
 And also I get the knowledge of how to develop the eduction by using ICT role.
 Research and developelopement is the main causes of improvement of ICT in Japan.

Name	Mr. Myat Min
Organization	本人の希望により掲載せず
Title	本人の希望により掲載せず

17	Interview Sheet

Wireless Access Systems used in disaster recovery operations
- The importance of satellite communication
- UHF Wi-Fi

Rural Telecommunication " The Role and Development "
- Competition in ICT sectors within a framework of national plan

Case Study of ICT projects for the solution of Digital Divide
- Sustainability and precise pre-survey are very important to implement ICT projects

Considerations to set Universal Service Obligation Fund
- Privatization and Universal Service Fund

Method of Project Assessment and its application
- Project Design Matrix
- The importance to consider Environmental Impact in Feasibility Study
- Financial Internal Rate of Return for organization and Economy Internal Rate of Return for Community

ICT Development Strategy: Global Challenge for Rural Community
- The best way to run Tele-center is to teach the local community
- Collaborative Learning and Capacity Building are important for e-Learning system
- To implement local content applications and multimedia contents for community

NTT Communication
- Tokyo No.5 Data Center
  The importance of disaster withstanding and environmentally safe data centers

Name	Mr. Kyaw Min Htwe
Organization	Yatanarpon Teleport Co. Ltd.
Title	Communications Specialist

18	Interview Sheet

I would like to describe the knowledge and findings through this training program.

➢ I knew about the current status and trend of telecommunications policies in Japan.
➢ I got the knowledge of telecommunications network and the revolution of mobile communication service in Japan.
➢ And noticed the facts that must be consider for the role of rural telecommunications.
➢ ICT Pilot Project at Papua New Guinea and Cambodia is good reference for Narrowing Digital Divide at rural area. And notice the importance of sustainability for the project.
➢ Although the earthquake is rarely occurring in our country, the wireless access communication systems must be considered for the disaster recovery operations.
➢ Finding that deregulation in telecommunications sector is important and need the considerations to set universal service fund.
➢ I got the knowledge for the benefits of Smart Grid technology and the good characteristics of Smart City.
➢ Knowing the project cycle management and feasibility study of project.
➢ Got the ICT development strategy and finding that how to solve the challenge for rural community is current issue. And knowing the important of local content for applications.
➢ And got the knowledge that by using human network is the best network

Through the program in Japan, I got a chance to study tour at NTT Com, NEC, NTT Docomo and Fujitsu. From this trip, I knew about self-learning for New Japanese Education Style by using ICT. If our country gets aids for such learning style, it may improve the development of ICT.

Tokyo No.(5) data center is smart construction and good planning for earthquake. The outsourcing facility of NTT communication is considerable to get redundancy of our Yatanarpon Web Portal System by using co-location service in our neighbor country. (e.g at Singapore, Hong Kong)

At NTT NOTE Showroom and NEC Innovation World, I noticed the high tech devices by using advanced technology. Some are not suitable for current conditions of our country but Home ICT service, Telemedicine service and IPTV service are need to develop in our country. The development of supercomputer at Fujitsu may initiate the use ICT to respond to changes in our society.

Name	Ms. Zar Chi Oo
Organization	Yatanarpon Teleport Co. Ltd.
Title	Asst. Manager(Technical)

19	Interview Sheet

NOTE
t-room for education
telemedicine
Home ICT

NEC Innovation World
X-table for e-Office
CONNEXIVE Agriculture system
Personal Solution by ICT
Digital marketing

NTT Docomo
Sensor Jacket
Remote Health Consultation

Fujitsu
Healthy lifestyle
Palm Vein Authentication by scanning vein pattern image with near-infrared light

Name	Mr. Thet Zaw Aye
Organization	Ministry of Home Affairs
Title	Staff Officer(Investigation)

20	Interview Sheet

I appreciate the current situation of Japan's technology.
Japan's products are qualified in technology .
I get the following new knowledge from this training program:

NOTE
t-room for education
telemedicine

NEC Innovation World
X-table
CONNEXIVE Agriculture system for Agriculture Management including graph.

NTT Docomo
Interpreting Telephone

Fujitsu
Palm Vein Authentication by scanning vein pattern image with
near-infrared light

Name	Mr. Hlaine Nandar Aung
Organization	Ministry of Home Affairs
Title	Staff Officer(Investigation)