

RECORD OF DISCUSSIONS BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY AND  
THE UNIVERSITY OF THE PHILIPPINES  
ON JAPANESE TECHNICAL COOPERATION  
FOR THE PHILIPPINE INFORMATION TECHNOLOGY  
HUMAN RESOURCE DEVELOPMENT PROJECT

In response to the request of the Government of the Republic of the Philippines, the Government of Japan has decided to cooperate in the Japan-Philippine Technical Cooperation Project on the Information Technology Human Resource Development (herein after referred to as "the Project") in the Republic of the Philippines.

Accordingly, Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation program of the Government of Japan, will cooperate with the University of the Philippines (hereinafter referred to as "UP") of the Republic of the Philippines (herein after referred to as "the Philippines") for the Project.

JICA and UP has had a series of discussions and exchanged views with respect to the desirable measures to be taken by JICA and the Government of the Philippines for the successful implementation of the above-mentioned Project.

As a result of the discussions, JICA and UP agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Quezon City, July 09, 2004



Mr. Shozo MATSUURA  
Resident Representative,  
JICA Philippines Office,  
Japan International Cooperation Agency



Prof. Rafael A. RODRIGUEZ  
Vice-President for Development  
University of the Philippines,  
The Republic of the Philippines

## THE ATTACHED DOCUMENT

### I. COOPERATION BETWEEN JICA AND THE GOVERNMENT OF THE PHILIPPINES

1. The Government of the Republic of the Philippines (hereinafter referred to as "the Philippines") will implement the Philippine Information Technology Human Resource Development Project (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan which is stipulated in ANNEX I.

### II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan, JICA will take, at its own expense, the following measures according to the normal procedures under the Colombo Plan Technical Cooperation Scheme.

#### 1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in ANNEX II.

#### 2. PROVISION OF MACHINERY AND EQUIPMENT

JICA will provide the machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in ANNEX III. The Equipment will become the property of the Government of the Republic of the Philippines upon being delivered C.I.F. (cost, insurance and freight) to the Philippine authorities concerned at the ports and/or airports of disembarkation.

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3. TRAINING OF THE PHILIPPINE PERSONNEL IN JAPAN

JICA will receive the Philippine personnel directly connected with the Project for technical training in Japan.

III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE PHILIPPINES

1. The Government of the Philippines will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese technical cooperation, through full and active involvement in the Project by all the related authorities, beneficiary groups and institutions.
2. The Government of the Philippines will ensure that the technologies and knowledge acquired by the Philippine nationals as a result of Japanese technical cooperation will contribute to the economic and social development of the Philippines.
3. The Government of the Philippines will grant, in the Philippines, privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their families, which are no less favorable than those accorded to experts of third countries working in the Republic of the Philippines under the Colombo Plan Technical Cooperation Scheme.
4. The Government of the Philippines will ensure that the Equipment referred to in II-2 above will be utilized effectively for the implementation of the Project in consultation with the Japanese experts referred to in ANNEX II.
5. The Government of the Philippines will take necessary measures to ensure that the knowledge and experience acquired by the Philippine personnel from technical training in Japan will be utilized effectively in the implementation of the Project.

6. In accordance with the laws and regulations in force in the Philippines, the Government of the Philippines will take necessary measures to provide at its own expense:

- (1) Services of the Philippine counterpart personnel and administrative personnel as listed in ANNEX IV;
- (2) Land, buildings and facilities as listed in ANNEX V ;
- (3) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the Equipment provided by JICA under II-2 above;
- (4) Means of transport and travel allowances for the Japanese experts for official travel within the Philippines.

7. In accordance with the laws and regulations in force in the Philippines, the Government of the Philippines will take necessary measures to meet:

- (1) Expenses necessary for transportation of the Equipment referred to in II-2 above within the Philippines, as well as for the installation, operation and maintenance thereof;
- (2) Customs duties, internal taxes and any other charges, imposed in the Philippines on the Equipment referred to in II-2 above; and
- (3) Running expenses necessary for the implementation of the Project.

#### IV. ADMINISTRATION OF THE PROJECT

1. Vice-President for Development of the University of the Philippines (hereinafter referred to as "UP"), as the Project Director, will bear overall responsibility for

the administration and implementation of the Project.

2. Assistant for Vice-President for Development of UP, as the Project Manager, will be responsible for the managerial and technical matters of the Project.
3. The Japanese Chief Advisor will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese Experts will give necessary technical guidance and advice to the Philippine counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established whose functions and composition are described in ANNEX VI.

## V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA and the Philippine authorities concerned, at the middle and during the last six months of the cooperation term of the Project in order to examine the level of achievement.

## VI. CLAIMS AGAINST JAPANESE EXPERTS

The Government of the Philippines undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in the Philippines except for those arising from the willful misconduct or gross negligence of the Japanese experts.

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## VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Government of the Philippines on any major issues arising from, or in connection with this Attached Document.

## VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

For the purpose of promoting support for the Project in the Philippines, the Government of the Philippines will take appropriate measures to make the Project widely known to the Filipino people.

## IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be four (4) years from July 20, 2004.

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LIST OF ANNEXES

- ANNEX I      MASTER PLAN
- ANNEX II     LIST OF JAPANESE EXPERTS
- ANNEX III    LIST OF MACHINERY AND EQUIPMENT
- ANNEX IV    LIST OF THE PHILIPPINE COUNTERPART AND  
ADMINISTRATIVE PERSONNEL
- ANNEX V     LIST OF LAND, BUILDINGS AND FACILITIES
- ANNEX VI    JOINT COORDINATING COMMITTEE AND ADVISORY BOARD

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## 1. Overall Goal

Skilled IT engineers with potential to be core IT staff in the relevant business sector will be continuously supplied through the activities of ITTC.

## 2. Project purpose

The Project aims to provide IT course graduates of university / college and IT engineers with the appropriate IT training courses to enhance their skills and knowledge to meet the industrial needs.

## 3. Outputs of the Project

- (0) Organization and operational function of the Project/ITTC are established and strengthened.
- (1) Philippine lecturers' teaching skills / knowledge on the subjects of IT Core Course, Applications Development, Embedded Systems, Network Systems are improved.
- (2) Philippine side is capable of providing IT training courses on its own in a sustainable manner and with a satisfactory quality corresponding to the needs of the IT industry. (planning of training courses, development of curriculum / training materials / teaching methods, conduct of training and revision).
- (3) Strong partnership with IT industry is built and maintained (curriculum development, sponsorship, OJT/Internship opportunities, etc.)
- (4) The Project/ITTC gains publicity as official IT training institute by the Filipino people.

## 4. Activities of the Project

- (0) Activities for above-mentioned Output (0)
  - 0-1. Establishment of project management system (secure instructors, staff, budget and facilities for the Project; assignment of dedicated staff and creation of operational organization)
  - 0-2. Securing administration and training space, equipment and network system for the Project.
  - 0-3. Collection of project-related information (such as, baseline data, trends in technology, activities of the other training institutions)
  - 0-4. Planning, implementation, monitoring and evaluation of project activities
  - 0-5. Planning course system (draft) for the Project/ITTC
  - 0-6. Establishing official partnership with IT Industries for effective implementation of the Project.
- (1) Activities for above-mentioned Output (1)



- 1-1. Development of skills and technology on IT-core courses and subjects
- 1-2. Development of skills and technology on Applications Development- related courses/subjects
- 1-3. Development of skills and technology on Embedded Systems-related courses/subjects
- 1-4. Development of skills and technology on Network Systems-related courses/subjects
- 1-5. Transferring the above mentioned technology among the C/Ps

(2) Activities for above-mentioned Output (2)

- 2-1. Needs survey and analysis for training courses/subjects
- 2-2. Preparation of the training plan of each course/subject
- 2-3. Preparation of curriculum for each course/subject
- 2-4. Development of teaching material for each course/subject
- 2-5. Development of instruction methods and instructors manual for each course
- 2-6. Educating Training instructors for each course/subject
- 2-7. Development of evaluation method for each course
- 2-8. Implementation of each course (recruitment and selection are included)
- 2-9. Survey of training implementation
- 2-10. Analysis of training implementation
- 2-11. Preparing draft of revision of training plan
- 2-12. Revision of training plan

(3) Activities for above-mentioned Output (3)

- 3-1. Planning for collaboration with IT industries\_Establishing a mechanism to closely coordinate with IT industries for in order to capturing business circumstances and market needs, development of training course という感じでどうでしょうか？
- 3-2. Review and revision of comprehensive policy onin Joint Advisory Coordinating Committee Advisory Board (twice a year) \_右活動、IT 産業との連携と関連性がある？
- 3-3. Reflection of IT industry needs by having curriculum working group
- 3-4. Discuss & decision of collaboration methods by having industries collaboration working group
- 3-5. Recruitment of instructors from IT industry
- 3-6. Gathering donation from IT industry
- 3-7. Mediation of internship opportunity for full-time course participants (listing accepting company, coordination and matching )
- 3-8. Mediation of job opportunity for full-time participants (listing accepting company, coordination and matching)
- 3-9. Follow-up survey and consultation for graduates

- (4) Activities for above-mentioned Output (4)
- 4-1. Public relations planning for the Project/ ITTC
  - 4-2. Preparing documentation to each cluster (general, IT related university/ college, industry)
  - 4-3. Holding explanatory meetings /fairs to each cluster
  - 4-4. Other public relations activity

Notes: Regarding the components of Japanese Language Training, Business Skill Training and Training Courses offered in the Satellite Site in Metro Manila Area, the inclusion of these issues in the Master Plan would be discussed and determined when the details are finalized after the Project has started.

In case in which the Master Plan should be modified due to changes of the situation of the Project, both sides will agree to and confirm the alteration by exchanging the Minutes of Meeting.

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## ANNEX II LIST OF JAPANESE EXPERTS

### 1. Japanese Long-Term Experts

Dispatch of long-term experts in the following areas and the number of person:

- (1) Chief Advisor: one (1) person
- (2) Expert for IT Training Institution Management and Industry Partnership Building: one (1) person
- (3) Expert for Training/Curriculum Design/Development and Training Implementation: one (1) person
- (4) Project Coordinator: one (1) person

2. Short-Term Experts will be dispatched in accordance with the needs for the effective implementation of the Project

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### ANNEX III LIST OF MACHINERY AND EQUIPMENT

	Items	Approximate Unites	Installation Place
1.	PC for development	approx. 10 units	UP-ITTC Main Site
2.	PC for trainees	approx. 80 - 100	UP-ITTC Main Site
3.	Server	5-7 units	UP-ITTC Main Site
4.	UPS	several units	UP-ITTC Main Site
5.	Network device (including cabling)	several units	UP-ITTC Main Site
6.	PC peripheral device	several units	UP-ITTC Main Site
7.	Related software for UP-ITTC Main Site		UP-ITTC Main Site
8.	Projector	several units	UP-ITTC Main Site
9.	Related Learning Material for Training Courses		UP-ITTC Main Site

Notes:

- The number of units and detailed specifications are tentative. They shall be finalized in detail during the term of the cooperation of the Project.
- The equipment would be procured in several phases in accordance with the volume of the training activities considering advancement of their performances as natural and possible price reduction.

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ANNEX IV LIST OF THE PHILIPPINE COUNTERPART AND  
ADMINISTRATIVE PERSONNEL

1. Counterpart Personnel:

(1) Project Director (PD): Vice-President for Development, UP

(2) Project Manager (PM): Assistant Vice-President for Development, UP

(3) Primary Counterparts:

- Two (2) full-time C/Ps from the first year of the Project, and
- Four (4) additional faculty members of Department of Computer Science and four (4) faculty members of Department of Electrical and Electronics Engineering of College of Engineering in UP Diliman as counterparts for the first year of the Project

(4) Secondary C/Ps

- At least thirty (30) C/Ps from the departments and centers of UP listed below;
  - Department of Computer Science and Department of Electrical and Electronics Engineering of College of Engineering
  - Department of Mathematics of College of Science
  - National Institute of Physics
  - Department of Linguistics and Asian Languages
  - Center for International Studies
  - College of Business Administration
  - Others

(5) Full-Time Instructors of IT Training Center: five (5)

2. Administrative Personnel:

Full-Time Administrative Staff: more than three (3)

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## ANNEX V LIST OF LAND, BUILDINGS AND FACILITIES

### Office space and necessary facilities

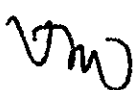
Following office spaces and classrooms will be provided by the Philippine side with necessary renovation and facilities including furniture.

The office spaces and classrooms are located in the building of Computational Science Research Center (CSRC) in UP Diliman Campus.

- (1) Office for Japanese Experts (Graduate Students' Room and Research Room 3 or 4 of CSRC)
- (2) Office for C/Ps (Research Room 1 and 2 of CSRC)
- (3) Server Room (Supply Room of CSRC)
- (4) Curricula/training material development room/Meeting Room (Computer Operators Room of CSRC)
- (5) Class Room 1 (Terminal Room 1 of CSRC)
- (6) Class Room 2 (Library Room of CSRC)
- (7) Class Room 3 (Lecture Room 2 and 3 of CSRC)
- (8) Class Room 4 (Part of Terminal Room 2 of CSRC (Second Floor))
- (9) Satellite Site in Metro Manila Area (Possibly the classroom of JITSE-Phil Foundation)

Note: For the Satellite Site, necessary coordination would be made according to the progress of the Project.

The site could be rented. In such case, the cost for the room rent, electricity and water supply, and necessary additional facilities (such as air-conditioning) are to be borne by UP.



## ANNEX VI JOINT COORDINATING COMMITTEE AND ADVISORY BOARD

### JOINT COORDINATING COMMITTEE:

#### 1. Functions

The joint coordinating committee will be held twice a year and whenever necessity arises. Its functions are as follows:

- (1) To review the overall progress of the Project implementation as well as its achievement;
- (2) To approve the Annual Plan of Operations (APO) of the Project in line with the Tentative Schedule of Implementation (TSI) and the Plan of Operations (PO) formulated under the framework of the Record of Discussions;
- (3) To coordinate necessary actions to be taken by both sides;
- (4) To exchange views on major issues arising from or in connection with the technical cooperation program.

#### 2. Provisional Composition

##### (1) Chairperson

Project Director

##### (2) Committee Members

###### a. Philippine Side

(a) Project Manager

(b) Some representatives (2-3) from faculty of the University of the Philippines

(c) Some representatives (1-3) of the IT industry

(d) Some representatives (1-3) from Philippine governmental offices concerned with IT

(e) Representative(s) from Philippine governmental offices concerned with the Project

###### b. Japanese Side

(a) Japanese Chief Advisor

(b) Japanese Long-Term Experts

(c) Project Coordinator

(d) Resident Representative of JICA Philippines Office

(e) Personnel concerned with the Project to be dispatched by JICA, if

necessary

(f) Invited Observer

Representative from the Embassy of Japan

## ADVISORY BOARD:

### 1. Functions

The advisory board will meet about twice a year and whenever necessity arises. Its functions are as follows:

- (1) Review and endorse the strategic plan of the Project
- (2) Review and endorse training programs, course plan and curricula.
- (3) Assist in linkage with the IT industry on operational needs of the UP-ITTC
  - a. Getting lecturers and instructors
  - b. Getting opportunities for and arranging OJT and internship
  - c. Marketing and promoting UP-ITTC to various schools and companies so that they will send ITTC trainees
  - d. Obtaining financial support (scholarships, grants, etc.)
- (4) Review, consult and endorse annual reports of the UP-ITTC
- (5) Make Plan of further implementation/diffusion of developed curricula and training methodologies (using JITSE and JITSS as standard) to other universities and IT-institutions

### 2. Provisional Composition

(a) Project Director

(b) Five (5) Representatives of the IT industry

(initially following parties will be invited)

- Electronic Industries Association of the Philippines, Inc. (EIAPI)

- Information Technology Foundation of the Philippines (ITFP)

- Japan Chamber of Commerce and Industry in the Philippines,  
Inc. (JCCIP)

- JITSE-Phil Foundation

- Philippine Software Industry Association (PSIA)

(c) Five (5) Members of the University of the Philippines academic  
community

- Chancellor Representative

- Department of Computer Science, College of Engineering





- Department of Electrical and Electronics Engineering, College of Engineering
- College of Science
- Technology Management Center or College of Business Administration

(d) Five (5) Philippine governmental offices concerned with IT

- CHED
- Commission on ICT
- DOST
- DTI/BOI
- NEDA

(e) Invited Observers

College of Arts and Letters, College of Social Science and Philosophy,  
Asian Center, Center for International Studies

b. Japanese Side

- (a) Japanese Chief Advisor
- (b) Japanese Long-Term Experts
- (c) Project Coordinator
- (f) Invited Observer
- (d) Resident Representative of JICA Philippines Office
- (f) Invited Observer

Representative from the Embassy of Japan



MINUTES OF MEETINGS BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY AND  
THE UNIVERSITY OF THE PHILIPPINES  
ON JAPANESE TECHNICAL COOPERATION  
FOR THE PHILIPPINES INFORMATION TECHNOLOGY  
HUMAN RESOURCE DEVELOPMENT PROJECT

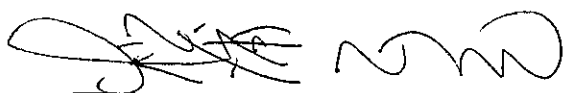
In response to the request of the Government of the Republic of the Philippines, the Government of Japan has decided to cooperate Japan-Philippine Technical Cooperation Project on the Information Technology Human Resource Development (herein after referred to as "the Project") in the Republic of the Philippines.

Accordingly, Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programme of the Government of Japan, will cooperate with the University of the Philippines (hereinafter referred to as "UP") of the Republic of the Philippines (herein after referred to as "the Philippines") for the Project.

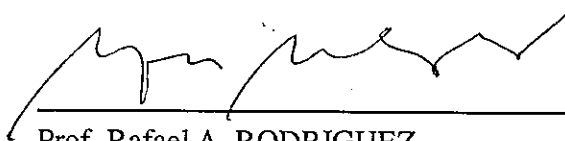
JICA and UP have had a series of discussions and exchanged views with respect to desirable measures to be taken by JICA and the Government of the Republic of the Philippines for the successful implementation of the above-mentioned Project.

As a result of the discussions, JICA and the UP agreed the matters referred to in the document attached hereto.

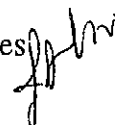
Quezon City, November 22, 2004



Mr. Shozo MATSUURA  
Resident Representative,  
JICA Philippines Office,  
Japan International Cooperation Agency



Prof. Rafael A. RODRIGUEZ  
Vice-President for Development  
University of the Philippines,  
The Republic of the Philippines



## THE ATTACHED DOCUMENT

### I. PROJECT DESIGN MATRIX (PDM)

Both sides had a series of discussions and agreed to finalize the initial version of the Project Design Matrix (PDM) for the Project as shown in ANNEX I

### II. TENTATIVE SCHEDULE OF IMPLEMENTATION (TSI)

Tentative Schedule of Implementation (TSI) shown in ANNEX II has been formulated according to the Record of Discussions on condition that the necessary budget will be allocated for the implementation of the Project by both sides and that the schedule is subject to change in the process of the Project's implementation.

### III. PLAN OF OPERATION (PO)

Plan of Operation (PO) has been tentatively agreed according to the Record of Discussions. PO for the whole project period is shown in ANNEX III and PO for the first year in ANNEX IV. The Japanese experts and the Philippine counterparts shall prepare Annual Plan of Operation every year and submit it to the Joint Coordinating Committee for authorization. The activities of the Project are subject to change within the scope of the Record of Discussions when necessity arises in the course of the Project's implementation.

### IV. INPUTS TO THE PROJECT BY THE PHILIPPINE SIDE

#### 1. ASSIGNMENT OF PERSONNEL

With reference to item 6 (1) of article III of the Record of Discussions, the Philippine side has agreed to assign the counterpart personnel as shown in ANNEX V.

#### 2. ALLOCATION OF BUDGET

According to the item 7 of article III of the Record of Discussions, the Philippines side shall allocate the budget necessary for implementation of the Project. The Tentative Budget Allocation Plan from 2004 to 2007 is shown in ANNEX VI.



### 3. LAND, BUILDING AND FACILITIES

According to item 6 of article III of the Record of Discussions, the Philippine side has agreed that the principal facilities for the implementation of the Project be provided by the Philippine side at its own budget.

## V. INPUTS TO THE PROJECT BY THE JAPANESE SIDE

### 1. DISPATCH OF LONG-TERM EXPERTS

According to item 1 of article II of the Record of Discussions, the Japanese side will provide the services of the Japanese Experts as follows:

- (1) Chief Advisor: one (1)
- (2) Expert for IT Training Institution Management and Industry Partnership Building: one (1)
- (3) Expert for Training/Curriculum Design/Development and Training Implementation: one (1)
- (4) Project Coordinator: one (1)

### 2. PROVISION OF EQUIPMENT

With reference to item 2 of article II of the Record of Discussions, Japanese side will, within its budget, provide the equipment necessary for the effective implementation of the Project. The list of the provisional equipment by the Japanese side is as shown in ANNEX VII, and is subject to change in accordance with the progress and activities of the Project.

### 3. TRAINING OF PHILIPPINE COUNTERPART PERSONNEL IN JAPAN

With reference to item 3 of article II of the Record of Discussions, several counterpart personnel will be trained in Japan. Approximately a total of nine (9) counterpart personnel will be accepted during the project period of four (4) years.

### 4. SPECIAL MEASURES

Both sides agreed to secure satellite training site in Metro Manila Area and implement training courses. Details should be discussed and determined during the Project.

## LIST OF ANNEXES

- |           |  |
|-----------|--|
| ANNEX I   | PROJECT DESIGN MATRIX (PDM)  |
| ANNEX II  | TENTATIVE SCHEDULE OF IMPLEMENTATION (TSI)                         |
| ANNEX III | PLAN OF OPERATION (PO) FOR THE WHOLE PROJECT PERIOD                |
| ANNEX IV  | PLAN OF OPERATION FOR THE FIRST YEAR                               |
| ANNEX V   | LIST OF THE PHILIPPINE COUNTERPART AND ADMINISTRATIVE<br>PERSONNEL |
| ANNEX VI  | TENTATIVE BUDGET ALLOCATION PLAN                                   |
| ANNEX VII | LIST OF MACHINERY AND EQUIPMENT                                    |

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**ANNEX I PROJECT DESIGN MATRIX (PDM)**

(prepared on 2 Nov, 2004)

Project Title: Information Technology Human Resources Development Project (IT-HRD)

Project Period: July 20, 2004 – July 19, 2008

Target Places: Quezon City, the Republic of the Philippines

Target group: UP faculty and ITTC instructors, Trainees of UP-ITTC training courses, teaching staff and participants of other universities and Philippine IT industries

(\*) : objective indicators on the starting point of the Project, final indicators shall be settled on mid-term evaluation team)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p><b>Overall goal</b> - Skilled IT engineers with potential to be core IT staff in the relevant business sector will be continuously supplied through the activities of ITTC.</p>	<p>1. 400(*) of full-time course graduates are produced from ITTC and available in IT employment every year 2. The graduates from the full-time course get to work as core IT engineers in IT industries.</p>	<p>1. Statistics and records at ITTC 2. Follow-up survey (questionnaire and interview) to industries and graduates</p>	<p>- Political and economic situations in the Philippines continue to stabilize and grow. - Sufficient participation and cooperation from government bodies, industry and other educational institutions are secured. - Appropriate budget necessary for instructor's training, procurement and replacement of equipment are secured for the expanding ITTC. - ITTC secures permanent training venue.</p>
<p><b>Project purpose</b> - The Project aims to provide IT course graduates of university / college and IT engineers with the appropriate IT training courses to enhance their skills and knowledge to meet the industry needs.</p>	<p>1. Stable operation of the Project/ITTC with budget security. 2. 10 ITTC full-time instructors and more than 30 part-time instructors are secured and ITTC have capacity for planning, development and implementation of trainings. 3. More than 80%(*) of ITTC graduates in full-time course get IT-related jobs in IT industry. 4. More than 80%(*) of graduates and companies which accept the graduates give high-value to the Project/ITTC. 5. IT engineers in private industries implement 25% of total teaching (training) courses as instructors at ITTC.</p>	<p>1. Statistics and records at ITTC (personnel, budget allocation etc.) 2. Questionnaire and interview survey for C/Ps and instructors from outside/Questionnaire and interview survey for participants 3. Statistics and records at the Project/ITTC (participants record, number of certificate issue, training record, pass rate for qualification, job acquisition, company profile, titles, annual salary) 4. Questionnaire and interview survey for companies and graduates 5. Statistics and record at the Project/ITTC (training)</p>	<p>- UP or Government allocate budget adequately for establishment and operation of ITTC.</p>
<p><b>Outputs</b> 0. Organization and operational function of the Project/ITTC are established and strengthened</p>	<p>0-1. Various management items are traced and recorded with an establishment of management system, staff and budget. 0-2. Staff, facilities, equipment and budget for training are appropriately secured. 0-3. Utilization/ maintenance of installed machinery and equipment are recorded.</p>	<p>0-1. Statistics and records at the Project/ITTC (personnel, financial statement, collaboration with industries) 0-2. Statistics and records at the Project/ITTC (personnel, financial statement, equipment) 0-3. Statistics and records at the Project/ITTC (utilization and maintenance of equipment/machinery)</p>	<p>- UP's (Government's) policy on and commitment to the Project remain unchanged. - Legal status of ITTC is established. - Sufficient number of trained C/Ps and ITTC instructors remain in IT training fields. - Facilities and equipment necessary for training are secured. - Sufficient number of UP faculty is secured for the project implementation.</p>
<p>1. Philippine instructors' teaching skills / knowledge on the subjects of IT Core Course, Applications Development, Embedded Systems, Network Systems are improved.</p>	<p>1-1. Technical knowledge and skills of C/Ps are improved through various trainings. 1-2. Technical knowledge and skills of C/Ps are improved by technical transfer among the C/Ps</p>	<p>1-1. Statistics and records at the Project/ITTC (implementation of C/P training, survey results of technical transfer, survey to participants and industry) 1-2. Statistics and records at the Project/ITTC (technical transfer among the C/Ps, survey results of technical transfer)</p>	<p>- Frequent transfer of the C/Ps do not occur.</p>
<p>2. Philippine side is capable of providing IT training courses on its own in a sustainable manner and with a satisfactory quality corresponding to the needs of the IT industry. (planning of training courses, development of curriculum / training materials / teaching methods, conduct of training and revision).</p>	<p>2-1. Overall training plan is made. 2-2. Curriculum, teaching material, course guide in guideline for instructors of each course are developed based on the overall training plan. 2-3. Conducting instructor's training according to plan. 2-4. Conducting training course for total 2,775 (*) participants 200: Full-time course 350: Weekday Evening course 925: Daytime Part-time course 400: Saturday 900: Special seminar 2-5. Revision of courses based on the needs collected course evaluation by participants and industry. 2-6. Evaluation guideline is prepared. 2-7. More than 80% (*) of participants in full-time and part-time courses are satisfied with the training. 2-8. The passing rate of JTISE-Phil examination for full-time course participants become higher than that of passing rate for the Philippines.</p>	<p>2-1. Statistics and records at the Project/ITTC (activities and planned policy for training plan) 2-2. Statistics and records at the Project/ITTC (curriculum and teaching materials for each purpose, related activities) 2-3. Statistics and records at the Project/ITTC (record of instructor's training in the Project) 2-4. Statistics and records at the Project/ITTC (number of courses, participants and training records) 2-5. Statistics and records at the Project/ITTC (monitoring, evaluation and feedback of each course) 2-6. Statistics and records at the Project/ITTC (activities related to evaluation system guideline) 2-7. Statistics and records at the Project/ITTC (survey for participants in each course) 2-8. Statistics and records at the Project/ITTC (internal data) and statistics at JTISE-Phil</p>	
<p>3. Strong partnership with IT industry is built and maintained (curriculum development, sponsorship, OJT/Internship opportunities, etc.)</p>	<p>3-1. Internship opportunity in IT related companies for all the participants in full-time course. 3-2. IT engineers from industry handle 25% of total teaching as instructors at ITTC. 3-3. Advisory board meetings are held at least twice a year. 3-4. Curriculum working group meetings and Industry Collaboration working group meetings are held as according to plan. 3-5. Donation from industries are provided.</p>	<p>3-1. Statistics and records at the Project/ITTC (applicants, opportunities, company name and title for internship) 3-2. Statistics and records at the Project/ITTC (record of course instructor) 3-3. Statistics and records at the Project/ITTC (minutes of discussion on Advisory Board) 3-4. Statistics and records at the Project/ITTC (minutes of discussion on each working group) 3-5. Statistics and records at the Project/ITTC (record of acceptance of donation)</p>	
<p>4. The Project/ITTC recognized as an IT training institute.</p>	<p>4-1. Related documents are prepared as planned and the briefing are held. 4-2. Number of prospected students and support for training increase every year. 4-3. Recognition and interesting for the Project/ITTC are increased every year. 4-4. Number of applicants become larger than that of capacity.</p>	<p>4-1. Statistics and records at the Project/ITTC (Number of public relation documents and related publications) 4-2. Statistics and records at the Project/ITTC (record of briefing, participants, impression) and survey report (for applicants) 4-3. Statistics and records at the Project/ITTC (survey for each targeted clusters) 4-4. Statistics and records at the Project/ITTC</p>	

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Activities	Input	
<p>0-1. Establishment of project management system (secure instructors, staff, budget and facilities for the Project, assignment of dedicated staff and creation of operational organization)</p> <p>0-2. Securing administration and training space, equipment and network system for the Project.</p> <p>0-3. Collection of project-related information (such as, baseline data, trends in technology, activities of the other training institutions)</p> <p>0-4. Planning, implementation, monitoring and evaluation of project activities</p> <p>0-5. Planning course system (draft) for the Project/ITTC</p> <p>0-6. Establishing official partnership with IT industries for effective implementation of the Project.</p> <p>1-1. Development of skills and technology on IT-core courses and subjects</p> <p>1-2. Development of skills and technology on Applications Development-related courses/subjects</p> <p>1-3. Development of skills and technology on Network Systems-related courses/subjects</p> <p>1-4. Development of skills and technology on Embedded Systems-related courses/subjects</p> <p>1-5. Transferring the above mentioned technology among the CPs</p> <p>2-1. Needs survey and analysis for training courses/subjects</p> <p>2-2. Preparation of the training plan of each course/subject</p> <p>2-3. Preparation of syllabus for each course/subject</p> <p>2-4. Development of teaching material for each course/subject</p> <p>2-5. Development of exercises &amp; case study for each course</p> <p>2-6. Training of instructors for each course/subject</p> <p>2-7. Development of evaluation method for each course</p> <p>2-8. Implementation of each course</p> <p>2-9. Advertising/Marketing of courses</p> <p>2-10. Development of entrance examination and selection of trainees</p> <p>2-11. Evaluation of courses by trainees</p> <p>2-12. Analysis of training implementation</p> <p>2-13. Preparing draft of revision of training plan</p> <p>2-14. Revision of training plan</p> <p>3-1. Establishing a mechanism to closely coordinate with IT industries in order to capture business circumstances and market needs</p> <p>3-2. Review and revision of comprehensive policy in Advisory Board (twice a year)</p> <p>3-3. Reflection of IT industry needs by having curriculum working group</p> <p>3-4. Discussion &amp; decision of collaboration methods by having industries collaboration working group</p> <p>3-5. Recruitment of instructors from IT industry</p> <p>3-6. Gathering financial support (such as scholarship) from IT industry</p> <p>3-7. Mediation of internship opportunity for full-time course participants (listing of accepting company, coordination and matching )</p> <p>3-8. Mediation of job opportunity for full-time participants (listing of accepting company, coordination and matching)</p> <p>3-9. Follow-up survey and consultation for graduates</p> <p>4-1. Public relations planning for the Project/ITTC</p> <p>4-2. Preparing documentation to each cluster (general, IT related university/ college, industry)</p> <p>4-3. Holding explanatory meetings /fairs to each cluster</p> <p>4-4. Other public relations activity</p>	<p><b>The Japanese side</b>  <b>Personnel:</b>            4 Long-term experts:            - Chief Advisor,            - Expert for IT Training Institution Management, and Industry Partnership Building            - Expert for Training/Curriculum Design/development, training implementation,            - Project Coordinator            Short-term experts for technology transfer:            in the fields of            - Core-part Training            - Applications Development Training            - Network Systems Training            - Embedded Systems Training  <b>Equipment:</b>            - Equipment for development such as PC, Server and necessary software            - Equipment for training such as PC, Server, network equipment and related software (for 4 classrooms)            Training in Japan: several persons per year (in the first 3 years of the Project)</p>	<p><b>The Philippine side</b>  <b>Personnel:</b>            Project Director(PD): One (1)            Project Manager (PM): One (1)            Primary C/P: 10 UP faculty            Secondary C/P: 30 UP faculty            ITTC full-time-equivalent instructors: 5            ITTC full-time-equivalent administrative staff: 3-5            Japanese language instructor (full-time): One(1) if possible  <b>Facilities:</b>            Facilities for development and training for ITTC activities  <b>Local cost:</b>            Costs for development and training for ITTC activities</p>

Notes: Regarding the components of Japanese Language Training, Business Skill Training and Training Courses offered in the Satellite Site in Metro Manila Area, the inclusion of these issues in the Master Plan would be discussed and determined when the details are finalized after the Project has started.

TENTATIVE SCHEDULE OF IMPLEMENTATION (TSI)

Calendar Year	2003				2004				2005				2006				2007				2008			
Japanese Fiscal Year	2003				2004				2005				2006				2007				2008			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>Terms of Cooperation</b>																								
<b>Japanese Side</b>																								
<b>I Dispatch of Study Team</b>																								
(1) 1st Preparatory Study																								
(2) 2nd Preparatory Study																								
(3) Project Consultation Study																								
(4) Mid-Term Evaluation																								
(5) Final Evaluation																								
<b>II Dispatch of Long-Term</b>																								
(1) Chief Advisor																								
(2) IT Training Institution Management and Industry																								
(3) Training Curriculum Design/Development and Training Implementation																								
(4) Project Coordinator																								
<b>III Dispatch of Short-Term Experts</b>																								
<b>IV Training of Counterpart Personnel in Japan</b>																								
<b>V Provision of Machinery and Equipment</b>																								
<b>Philippine Side</b>																								
<b>I Building and Facilities</b>																								
<b>II Allocation of Counterpart Personnel and Supporting Staff</b>																								
<b>III Allocation of Budget</b>																								

Note:

1. Japanese fiscal year starts in April and ends in March.
2. This schedule is subject to change if necessary, such as with the progress / budgetary constraint of the Project.

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**ANNEX IV PLAN OF OPERATION (PO) FOR THE FIRST YEAR**

Category	Details of Activities	Calendar year (Quarter)						Responsible Person in the project	Input	Remarks
		2003		2004		2005				
		(3)	(4)	(1)	(2)	(3)	(4)			
Soft launch of ITTC by UP own efforts	Planning and implementation of experimental training courses									
	Evaluation of experimental courses and feedback to preliminary planning of ITTC courses									
	10-1. Establishment of project management system (secure instruction, staff, budget and facilities for the Project; assignment of dedicated staff and creation of operational organization)				Allocation and management of personnel & budget 7/20					
	10-2. Securing administration and training space, equipment and network system for the Project			Equipment Procurement & installation						
	10-3. Collection of project-related information (such as, baseline data, trends in technology, activities of the other training institutions)			Collection/dissemination of related/necessary information 7/20						
	10-4. Planning, implementation, monitoring and evaluation of project activities			7/20						
	10-5. Planning course system (draft) for the Project/ITTC			8/25						
	10-6. Establishing official partnership with IT Industries for effective implementation of the Project			10/6						
	1-1. Development of skills and technology on IT-core courses and subjects			Oct-Nov				Jan	Apr-May	
	1-2. Development of skills and technology on Applications Development related courses/subjects								Apr-May	
Strengthening of IT-related skills and technology of C/Ps	1-3. Development of skills and technology on Network Systems related courses/subjects								Apr-May	
	1-4. Development of skills and technology on Embedded Systems related courses/subjects									
	1-5. Transferring the above mentioned technology among the C/Ps									
	2-1. Needs survey and analysis for training courses/subjects							Nov-Feb		
	2-2. Preparation of the training plan of each course/subject									
	2-3. Preparation of syllabus for each course/subject							Nov-Feb		
	2-4. Development of teaching material for each course/subject								application / network Dec-Jul	
	2-5. Development of exercise & case study for each course								Dec-Jul	
	2-6. Training of instructors for each course/subject								Oct	
	2-7. Development of evaluation method for each course								Jan-Mar	
Development & Systematic implementation of training courses	2-8. Implementation of each course									
	2-9. Advertising/Marketing of courses								Dec-May	
	2-10. Development of entrance examination and selection of trainees								Dec-May	
	2-11. Evaluation of courses by trainees									
	2-12. Analysis of training implementation									
	2-13. Preparing draft of revision of training plan									
	2-14. Revision of training plan									
	3-1. Establishing a mechanism to closely coordinate with IT industries in order to capture business circumstances and market needs									
	3-2. Review and revision of comprehensive policy in Advisory Board (twice a year)							Dec		
	3-3. Reflection of IT industry needs by having curriculum working group							Nov	Feb	May
Collaborations with IT industries	3-4. Discussion & decision of collaboration methods by having industries collaboration working group							8/25		
	3-5. Recruitment of instructors from IT industry							10/6		Apr
	3-6. Gathering financial support (such as scholarship) from IT industry									Jun
	3-7. Mediation of internship opportunity for full-time course participants									Oct
	3-8. Mediation of job opportunity for full-time participants									
	3-9. Follow-up survey and consultation for graduates									
	4-1. Public relations planning for the Project/ITTC									Jul-Dec
	4-2. Preparing documentation to each cluster (general, IT related university, college, industry)									Sep-Dec
	4-3. Holding explanatory meetings /fairs to each cluster									Jan
	4-4. Other public relations activity									Jul

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## LIST OF PHILIPPINE COUNTERPARTS AND ADMINISTRATIVE PERSONNEL

Title in the Project	Name	Current Title and/or Department
Project Director	Rafael A. Rodriguez	Vice President for Development
Project Manager	Jaime D.L. Caro	Assistant Vice President for Development and UP-ITTC Program Director
Primary C/Ps (10)		
IT Training	Ronald Tuigol	Department of Computer Science
	Rommel Feria	
	Rebecca Ong	
	(to be nominated)	
	Melvin Co	Department of Electrical and Electronics Engineering
	Jhoanna Rhodette Ibabao	
	Rachel Villacorta	
	Henry Adorna	Department of Mathematics
Roselyn Santos	UP-ITTC Training Officer	
(to be nominated)	UP-ITTC Training Officer	
Secondary C/Ps		
IT Training (30)	Cedric Angelo Festin	Department of Computer Science
	Prospero Naval	
	Susan Pancho	
	Arnold Putong	
	Charmagne Feria	
	John Paul Petines	
	Joyce Avestro	
	Florence Balagtas	
	Ma. Rowena Solamo	
	Jose Timoteo Vergel de Dios	
	Orlan Gonzales	
	Ivan Orrozco	
	Michael Samson	
	Rafael P. Saldaña	
	(to be nominated)	
	Lesley Abe	De La Salle U - College of Computer Studies
	Manuel Ramos	Department of Electrical and Electronics Engineering
	Dennis Rodgen Tolentino	
	Lounell Gueta	
	Percival Magpantay	
	Rhandley Cajote	
	Nestor Michael Tiglao	
	Rowel Atienza	
Ric del Rosario	Department of Mathematics	
Fidel Nemenzo		
Evelyn Jacinto		
(to be nominated)		
(to be nominated)	National Institute of Physics	
Dranreb Monico		
(to be nominated)		
Japanese Language Training	Joy De Vera	Center for International Studies
	Chim Zayas	
	Mary Ann Prieto Gaitan	
	Antonio Llagas Balmeo	
	Athena Cabazor	
	Ria dela Cruz Parsram	
	Lucyllinyne Tabada	
Amparo Adelina Umali		
Business Skills Training	Art Cayanán	College of Business Administration/ Technology Management Center
	Ben Paul Gutierrez	
	Benjamin Sandoval	
	Jonatahan Salvacion	
	Ed Deveza	
C/Ps for Administration	Jun Flores	System Administrator
	(to be nominated)	Full-time Technician
	Raul Baratang	UP-ITTC Trng. & Industry Collab. Officer
	(to be nominated)	
	(to be nominated)	

TENTATIVE BUDGET ALLOCATION PLAN

ANNEX VI

1. UP IT Training Center (UP-ITTC) Budget Plan (CY2004 - CY2008)

			CY 2004	CY 2005	CY 2006	CY 2007
<b>Major Operating Parameters of ITTC</b>						
Plan of Training course, Number of classes and trainees						
Full-time course (375 hours/quarter)	Number of trainees		0	100	250	300
	Number of classes (25/class)		0	4	10	12
	Total hours		0	1,500	3,750	4,500
Weekday evening course (40 hours/training)	Number of trainees		0	100	200	400
	Number of classes (25/class)		0	4	8	16
	Total hours		0	160	320	640
Saturday course (40 hours/training)	Number of trainees		50	200	200	300
	Number of classes (25/class)		2	8	8	12
	Total hours		80	320	320	480
Part-time Weekday course (40 hours/training)	Number of trainees		50	300	450	600
	Number of classes (25/class)		2	12	18	24
	Total hours		80	480	720	960
<b>Total</b>	<b>Number of trainees</b>		<b>100</b>	<b>700</b>	<b>1,100</b>	<b>1,600</b>
	<b>Total hours</b>		<b>160</b>	<b>2,460</b>	<b>5,110</b>	<b>6,580</b>
Plan of assignment of instructors						
UP faculty (part-time), other university faculty, IT company engineers	Number of instructors		1	9	27	31
	Total class hours		40	1,020	3,190	3,700
	Class hours/instructor		40	120	120	120
ITTC fulltime instructor	Number of instructors		2	3	4	6
	Total class hours		120	1,440	1,920	2,880
	Class hours/instructor		60	480	480	480
Plan of assignment of full-time admini. Staff			2	3	4	5
<b>Financial Balance of ITTC</b>						
Revenue	Tuition	Full-time course (P 15,000/quarter) *80% enroll	0	1,200,000	3,000,000	3,600,000
		Weekday evening course (P8,000)*90% enrollment	0	720,000	1,440,000	2,880,000
		Saturday course ( P8,000)*90% enrollment	360,000	1,440,000	1,440,000	2,160,000
		Part-time Weekday course ( P 8,000)	400,000	2,400,000	3,600,000	4,800,000
	UP Subsidy		5,000,000	3,500,000	2,000,000	0
	<b>Total</b>		<b>5,760,000</b>	<b>9,260,000</b>	<b>11,480,000</b>	<b>13,440,000</b>
Expenses (*)	Costs for ITTC full-time admin. Staff		248,000	702,000	936,000	1,170,000
	Lecturers' fees for instructors (P 1,000/hour)		40,000	1,020,000	3,190,000	3,700,000
	Costs for ITTC full-time instructors ( P 20,000-25,000/p/month)		240,000	936,000	1,248,000	1,872,000
	Project Development Associates		378,000	378,000	378,000	378,000
	Furnitures, etc		623,000	300,000	0	0
	Cost for curriculum development		1,250,000	1,250,000	500,000	300,000
	Cost for trainers' training ( P 1,000 lecturers' fee/hour)		400,000	280,000	160,000	80,000
	Maintenance, Other Operational Expenses		1,234,000	2,468,000	3,702,000	4,319,000
	Contingency (10-20% of Total Expenses)		882,600	1,100,100	1,011,400	1,181,900
		<b>Total</b>	<b>5,295,600</b>	<b>8,434,100</b>	<b>11,125,400</b>	<b>13,000,900</b>
Net revenue			464,400	825,900	354,600	439,100
Cumulative Surplus (Deficit)			464,400	1,290,300	1,644,900	2,084,000

(\*)These expenses could mean " Philippine Side (UP-ITTC) Input Cost"

2. UP-ITTC Foundation Budget Plan (SY2004 - SY2008)

			SY 2004	SY 2005	SY 2006	SY 2007
<b>Major Operating Parameters of ITTC Foundation</b>						
Plan of Training course, Number of classes and trainees						
Special Seminars (1-5 days)	Number of trainees		200	400	400	800
	Number of classes (50-100/seminar)		2	4	4	8
	Total hours		20	40	40	80
Plan of assignment of full-time admini. Staff			2	2	2	2
<b>Financial Balance of ITTC Foundation</b>						
Revenue	Special Seminar ( P8,000)		1,600,000	3,200,000	3,200,000	6,400,000
	Donations		0	1,000,000	1,000,000	1,000,000
	Others		100,000	100,000	100,000	100,000
		<b>Total</b>	<b>1,700,000</b>	<b>4,300,000</b>	<b>4,300,000</b>	<b>7,500,000</b>
Expenses	Lecturers' fees (P 2,000/hour)		40,000	80,000	80,000	160,000
	Operating Cost of Special Seminars		500,000	1,000,000	1,000,000	2,000,000
	Cost for Full-time staff		40,000	40,000	40,000	40,000
	Scholarship for 10% of trainees		0	926,000	1,148,000	1,344,000
	Other Operating Cost		120,000	120,000	120,000	120,000
		<b>Total</b>	<b>700,000</b>	<b>2,166,000</b>	<b>2,388,000</b>	<b>3,664,000</b>
Net revenue			1,000,000	2,134,000	1,912,000	3,836,000
Cumulative Surplus (Deficit)			1,000,000	3,134,000	5,046,000	8,882,000

## LIST OF MACHINERY AND EQUIPMENT

## Installation Schedule

Place	Set	Equipments	JFY2004	JFY2005	JFY2006	JFY2007
Administration Office, Server Room etc.	A	Fundamental Infrastructure for UP-ITTC (Network, Servers, PC for Trainers etc.)	◆	→		
Classroom-1 (25trainees)	B	Basic Equipment for "Core & Application Course"	◆	→		
Classroom-2 (25trainees)	B	Basic Equipment for "Core & Application Course"	◆	→		
	C	Additional Equipment for "Network Systems Course"	◆	→		
Classroom-3 (25trainees)	B	Basic Equipment for "Core & Application Course"		◆	→	
	D	Additional Equipment for "Embedded Systems Course"		◆	→	
Classroom-4 (25trainees)	B	Basic Equipment for "Core & Application Course"		◆	→	

Note: 1, Specification is subject to change according to a technical trend etc.  
 2, ◆:Instllation  
 3, →:Operation & Maintainance

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**A. Fundamental Infrastructure for UP-ITTC (Network, Servers, PC for Trainers etc.)**

Item	Description	Qty	Notes
<b>ROUTERS AND SWITCHES</b>			
No1	Headquarter Switches	2	
No2	Communication Router	1	
No3	Internet Router	1	
No4	Server Switch	1	
No5	Wireless LAN PC Card Notebook Adapter	5	
No6	Wireless LAN Access Point	2	
<b>FIREWALL</b>			
No7	FIREWALL	1	
<b>WORKSTATIONS</b>			
No8	<b>Notebook PC (for Trainers)</b>	10	
	Operating System: Windows XP Pro Full	10	
	Office: Office 2000 Professional Full Version	10	
	Headsets	10	
	External optical mouse	10	
<b>PRINTERS AND PROJECTORS</b>			
No9	Laser Printer (Mono) for staff room	1	
No10	Laser Printer (Color) for staff room and training classes (shared)	2	
No11	Projector for conference/meeting	2	
No12	Pull Down Screen for Projector	2	
<b>SOFTWARE</b>			
No13	Macromedia Web Publishing System (Starter 10-pack)	3	
No14	Macromedia eLearning Suite 2004	3	
No15	Macromedia Director MX 2004	1	
No16	Macromedia Fontographer	1	
No17	Adobe Creative Suite Premium Edition Full Ver.	5	
No18	Adobe FrameMaker 7.1	1	
No19	Oracle Academic Initiative Program - Windows - Membership for 2 yrs	1	
No20	Oracle Academic Initiative Program - Linux - Membership for 2 yrs	1	
<b>SERVERS</b>			
No21	<b>Web and DNS Server</b>	1	
	OS: Red Hat Enterprise Linux	1	
No22	<b>Mail and SMTP Server</b>	1	
	OS: Red Hat Enterprise Linux	1	
No23	<b>Proxy Server</b>	1	
	OS: Red Hat Enterprise Linux	1	
No24	<b>Active Directory Server</b>	1	
	OS: Windows 2003 Server OLP	1	
No25	<b>Anti-Virus Server</b>	1	
	Enterprise-level Anti Virus Server Software with 100 user licenses	1	
	OS: Windows 2003 Server OLP	1	
No26	<b>Workstation for technical staff at Server Room</b>	1	
	OS: Windows 2003 Server OLP	1	
	Office: MS Office 2003 Professional	1	
No27	<b>Storage</b>	1	
	240 GB usable storage		
No28	<b>Server Rack</b>	1	
No29	<b>File Server for Staff</b>	1	
	OS: Windows 2003 Server OLP	1	
No30	<b>Servers for Hands-on Learning (for connected classes)</b>		
	<b>Windows Server</b>	1	
	OS: Windows 2003 Server OLP	1	
	<b>Linux Server</b>	1	
	OS: Red Hat Enterprise Linux	1	
	<b>Unix Server</b>	1	
	OS: Solaris 8.0	1	
No31	<b>Terminal Server</b>	1	

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### B. Basic Equipment for "Core & Application Course"

Item	Description	Qty	Notes
<b>ROUTERS AND SWITCHES</b>			
No1	Remote Switches (for each class)	4	
<b>WORKSTATIONS</b>			
No2	Student's/Trainees PC	100	
No3	Trainer's PC	4	
<b>SERVER</b>			
No4	Terminal Server	4	
No5	Windows Server for Hands-on Practice	4	
No6	Linux Server for Hands-on Practice	4	
<b>PRINTERS AND PROJECTORS</b>			
No7	Laser Printer	4	
No8	Projector	4	
No9	Pull Down Screen for Projector	4	
<b>SOFTWARE</b>			
No10	MSDN Academic Alliance Program (annual price)	1	
No11	Microsoft Office Professional	100	
No12	Oracle Academic Initiative (annual price)	1	
No13	SPSS 12.0	8	
No14	Rational Rose (IBM Scholars Program)	1	
No15	MATLAB 6.5.1	8	
No16	Macromedia Studio MX 2004	100	
No17	Adobe Creative Suite Premium	100	
No18	Flamework (OpenSource)	100	
No19	Linux, OpenOffice/StarOffice (OpenSource)	100	
No20	IBM WebSphere Application Server (Web Services)	26	
No21	InstallShield AdminStudio 6.0 (installer-creation tool)	26	
No22	Crystal Reports 10 Advanced Developer (reporting tool)	26	
No24	Testing/Error-checking/Bug-tracking Tool (software testing)	26	
No25	Software Component Library (library of small programs)	26	
No26	Symantec/Norton Ghost Enterprise Edition 120-user license	1	

Note: Quantities indicated above are for 4 classrooms (25 trainees / classroom)

**C. Additional Equipment for "Network Systems Course"**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Notes</b>
<b>Equipment</b>			
No1	<b>PC Servers</b>	5	
No2	<b>Routers with VoIP support</b>	10	
No3	<b>Remote Access Servers (RAS)</b>	5	
No4	<b>Synchronous modem cards (Link Modem card)</b>	10	
No5	<b>Wireless access points</b>	10	
No6	<b>Wireless adapters</b>	40	
No7	<b>LAN Tester</b>	15	
No8	<b>Protocol Analyzer</b>	6	
No9	<b>8 port 10/100 Ethernet switches</b>	15	
No10	<b>24 port 10/100 Ethernet Switches</b>	4	
No11	<b>Web cameras</b>	30	
No12	<b>Headsets</b>	30	
No13	<b>Embedded microcontroller kits with LAN support</b>	30	
No14	<b>Crimping tools</b>	30	
No15	<b>Power Screwdriver</b>	5	
No16	<b>Standard Open Bay Racks 19"</b>	3	
No17	<b>Standard Patch Panels</b>	2	
No18	<b>VoIP Router w/ Voice Module</b>	1	
No19	<b>VoIP Voice Gateway (ATA 188) with 2 POTS ports</b>	15	
No20	<b>POTS Phone Apparatus</b>	30	
No21	<b>VoIP Phones (IP Phone 7960)</b>	15	
No22	<b>Wireless VoIP Phones (IP Phone)</b>	5	
<b>Software</b>			
No23	<b>Windows 2000 Server</b>	5	included in academic alliances
No24	<b>Linux/FreeBSD/Open BSD *FREE (downloadable)</b>	26	
No25	<b>Java Development Software</b>	26	
No26	<b>Visual Studio</b>	26	included in academic alliances
No27	<b>Embedded SDK with TCP/IP Stack</b>	10	
No28	<b>Open Source Software: *FREE (downloadable)</b>	26	
No29	<b>CISCO Call Manager</b>	1	
No30	<b>CISCO Works Network Equipment Manager</b>	1	

Note: These equipments are for 1 classroom

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*John*



#### D. Additional Equipment for "Embedded Systems Course"

Item	Description	Qty	Notes
No1	Microcontroller	30	
No2	Network Hub	1	
No3	Development Tool for PIC dor Debugging	30	
No4	EPROM Programmer	15	
No5	EPROM Eraser	15	
No6	Triple Output Voltage Supply	30	
No7	Oscilloscope	30	
No8	Logical Analyzer	1	
No9	Multimeter	30	
No10	Memory (byte-wide parallel EPROM)	30	
No11	Memory (byte-wide SRAM)	30	
No12	7-segment display	30	
No13	CODEC	15	
No14	FPGA Development Kit	15	
No15	Logic Probe	30	
No16	Breadboard	120	

Note: These equipments are for 1 classroom

23/11/20

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