

**Schedule of Terminal Evaluation Team on The Upgrading IT Education Project, NUOL
(November 9-29, 2005)**

Date	Time	Schedule	Correspondent
Nov.9 Wed	09:30 am	Ms. Soekawa Arrival Vientiane	
	11:00-12:00 am	Meeting at JICA Laos Office	Mr. Ikeda, Deputy Resident Representative (DRR) Mr. Tomita, Assistant Resident Representative (ARR) Ms. Soekawa, Consultant Mr. Adachi, Program Officer (PO)
	14:00-16:00 pm	Visit Project office, NUOL (briefing from Japanese experts)	Mr. Ikeda, Japanese Expert
Nov.10 Thu	09:00-10:00 am	Interview with Project Director	Prof. Dr. Saykhong Saynasine, vice president of NUOL
	10:30-12:00 am	Interview with Project Manager	Mr. Khamphoui Southisombath, vice dean of FE
	15:00-17:00 pm	Interview with Japanese expert	Mr. Ikeda, Chief Advisor
Nov.11 Fri	09:30-12:00 am	Interview with project coordinators	Mr. Seumsak Douangsyla Mr. Tha Bounthan Mr. Xaythavy Lounangvilay, secretary
	14:00-17:00 pm	Interview with counterparts -Curriculum development -Administration -Procurement	Mr. Khampha Sihanakhone Mr. Somsanouk Pathumvanh Mr. Phou-ngern Phommamaxysi
	17:30-18:30 pm	Interview with Third Country experts (KMITL)	Dr. Somsak Choomchuay Mr. Wiboon Promphanich
	19:00-20:00 pm	Meeting at JICA Laos Office	Mr. Tomita, ARR Ms. Soekawa, Consultant Mr. Adachi, PO
Nov.12 Sat		Classify Data and Information	
Nov.13 Sun		Classify Data and Information	
Nov.14 Mon	09:00-12:00 am	Interview with counterparts -Teaching staff development -Material development -Teaching & Learning Assurance -IT research & Development	Ms. Nouanchanh Panyanouvong Mr. Sengprasong Phrakonekham Mr. Phonepaseuth Satahack
	15:30-16:30 pm	Interview with students	Group B: Mr. Khomdeth Chitpasong Group C: Mr. Vilaykham Lasasimma
Nov.15 Tue	9:30-11:00 am	Interview with Lecturer	Mr. Tha Bounthan, lecturers in Programming I & II
	14:00-15:00 pm	Interview with Graduate	Mr. Oulaphanh Bounnasy Head of Internet Central, Division of Information Technology, ETL
Nov.16 Wed		【Laos National Holiday】 Classify Data and Information	
Nov.17 Thu	9:00-10:30 am	Interview with Lecturer	Mr. Keokanlaya Sihath, Monitoring Advisor of Programming I & II
	14:00-18:00 pm	Classify Data and Information	
Nov.18 Fri	9:00-10:30 am	Interview with Ministry of Education (MOE)	Dr. Kongsy, Director General Department of Higher & Vocational Education
	10:30-11:30 am	Interview with Graduate	Mr. Phayvanh Pathammavong, (graduate) Mr. Xaysomphet Norasingh, (Phayvanh's Boss), Permanent Secretary Office, Commerce and Information Technology Division
	13:30-14:30 pm	Interview with Ministry of Communication, Transport, Post, and Construction (MCTPC)	Mr. Chaleun Sibounheuang, Head of Telecom Division Mr. Khamla Sounnalat, Telecom Division, MCTPC
	15:00-16:00 pm	Interview with Graduate	Mr. Sengchanh HOMSYLAHACK
	17:30-18:30 pm	Meeting at JICA Laos Office	Mr. Tomita, ARR Ms. Soekawa, Consultant Mr. Adachi, PO

Nov.19 Sat	Classify Data and Information Prepare draft of M/M and JCC meeting		
Nov.20 Sun	Classify Data and Information Prepare draft of M/M and JCC meeting		
Nov.21 Mon	09:00-10:30 am	Interview with ETL	Mr. Vathana Vongthevanh, Deputy Director Public Service Telephone Network
	15:30-17:30 pm	Interview with Graduate	Mr. Opaseuth SIHARATH,(graduate),Chief of ICT section (Below is Opaseuth's Bosses) Mr. Vanpheng SAYAKONE, (Opaseuth's Boss), Deputy Director General Mr. Vannaly VORAVONG, Manager, Dept. of Telecom Development Project Mr. Bounly AMNOYPHONE, Deputy Manager, Dept. of Human Resources Mr. Keovisouk SOLAPHOM, Dy Manager of Project Department
Nov.22 Tue	9:00- am	Classify Data and Information Prepare draft of M/M and JCC Meeting	Prof. Dr.Saykhong Saynasine, vice president of NUOL Mr. Seumsak Douangsyla, Chief of Project Coordinator Mr. Ikeda, Japanese Expert Dr. Somsak Choomchuay, Third Country Expert Mr. Wiboon Promphanich, Third Country Expert Mr. Tomita ARR Ms. Soekawa, Consultant Mr. Adachi, PO
	18:00-20:00 pm	Discussion on the draft of M/M	
Nov.23 Wed	9:00- am	Prepare draft of M/M and JCC meeting	
	14:00- pm	Prepare draft of M/M and JCC meeting	
Nov.24 Thu	9:00- am	Meeting with project members	Dr. Saykhong Saynasine, Mr. Ikeda, KMITL, Mr. Tomita, Adachi
	14:00- pm	Meeting at JICA Laos Office	Mr. Ikeda, DRR Mr. Tomita, ARR Ms. Soekawa Mr. Adachi, PO
Nov.25 Fri	9:00 am	Reconfirmation of the draft of M/M with NUOL	Mr. Ikeda, Japanese Expert Dr. Somsak Choomchuay, Third Country Expert Mr. Wiboon Promphanich, Third Country Expert
	14:00 pm	Meeting at JICA Laos Office	Mr. Ikeda, DRR Mr. Tomita, ARR Ms. Soekawa Mr. Adachi, PO
Nov.26 Sat	Classify Data and Information Prepare draft of M/M and JCC meeting		
Nov.27 Sun	Classify Data and Information Prepare draft of M/M and JCC meeting		
Nov.28 Mon	11:00-14:30	JCC Meeting - Signing Minutes of Meeting (Report to the Embassy of Japan)	JCC members, MOE, NUOL, JICA Laos
	16:00-17:00	(Report to JICA Laos Office)	Mr. Mori, RR Mr. Ikeda, DRR Mr. Tomita
Nov.29 Tue	10:30 am	Leave Vientiane for BKK by TG691	

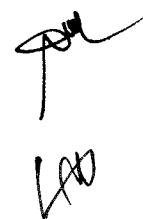
ANNEX_1-2_List of Personnel Visited by the Committee

List of Personnel Visited by the Committee

#	Date/Time	Name	Title	Remarks
1	November, 10 09:00- 10:00	Assoc. Prof. Dr. Saykhong Saynasine,	vice president of NUOL	Project Director
2	November, 10 10:30-12:00	Mr. Khamphoui Southisombath,	Vice Dean of FE, NUOL	Project Manager
3	November, 10 15:00-17:00	Mr. Susumu IKEDA	JICA Expert	
4	November, 11 09:30-12:00	Mr. Seumsak Douangsyla,	FE, NUOL	project coordinator
5		Mr. Tha Bounthan,	FE, NUOL	project coordinator
6		Mr. Xaythavy Louangvilay,	FE, NUOL	secretary
7	November, 11 14:00-15:00	Mr. Khampha Sihanakhone	FE, NUOL	counterparts
8	November, 11 15:00-16:00	Mr. Phou-ngern Phommaysi	FE, NUOL	counterparts
9	November, 11 16:00-17:00	Mr. Somsanouk Pathumvanh	FE, NUOL	counterparts
10	November, 11	Mr. Wiboon PROMPHANICH,	KMITL	JICA Third
11	17:30-18:30	Dr. Somsak CHOOMCHUAY,	KMITL	Country Expert
11	November, 14 9:30-11:00	Ms. Nouanchanh Panyanouvong	FE, NUOL	counterparts
12	November, 14 10:30-11:30	Mr. Sengprasong Phrakonekha	FE, NUOL	counterparts
13	November, 14 11:30~12:30	Mr. Phonepaseuth Satahack	FE, NUOL	counterparts
14	November, 14 15:30-14:30	Mr. Khomdeth Chitpasong,	Land Titling Project, MOF	Group B student
15		Mr. Vilaykham Lasasimma,	LAN Manager, UNDP	Group C student
16	November, 15 09:30~11:00	Mr. Tha Bounthan,	FE, NUOL	lecturers in Programming I&II
17	November, 15 14:00~15:00	Mr. Oulaphanh Bounnasy,	Head of Internet Central, Division of Information Technology, ETL	Graduate
18	November, 17 09:00-10:30	Mr. Keokanlaya Siharath	FE, NUOL	Monitoring Advisor of Programming I&II

ANNEX_1-2_List of Personnel Visited by the Committee

19	November, 18 09:00-10:30	Assoc. Prof. Dr. Kongsy Sengmany	Director General, Higher Education & Technical Vocational Training Department, MOE	
20 21	November, 18 10:30-11:30	Mr. Phayvanh Pathammavong Mr. Xaysomphet Norasingh	Staff, ICT Division, MOC Permanent Secretary Office, MOC	Graduate Graduate's Boss
22 23	November, 18 13:30-14:30	Mr. Chaleun Sibounheuang Mr. Khamla Sounnalat	Head of Telecom Division, Post & Telecommunications Department MCTPC Staff of Telecom Division, Post & Telecommunications MCTPC	
24	November, 18 15:00-16:00	Mr. Sengchanh Homsylahack	Assistance LAN Manager, Post & Telecommunications Department, MCTPC	Graduate
25	November, 21 09:00-10:30	Mr. Vathana Vongthevanh	Deputy Director, Public Service Telephone Network, ETL	
26 27 28 29 30	November, 21 15:30-17:30	Mr. Opaseuth Siharath Mr. Vanpheng Sayakone Mr. Vannaly Voravong Mr. Bounly Amnoyphone Mr. Keovisouk Solaphom	Chief of IT Division Deputy Director General Manager, Dept. of Telecom Development Project Deputy Manager, Dept. of Human Resources Deputy Manager of Project Department	(Graduate) (Graduate's Bosses)



Project Design Matrix (PDM)

Project Name: The Upgrading IT Education Project**Project Area:** Faculty of Engineering (FE), National University of Laos (NUOL)**Target Group:** Diploma holders in FE, other faculties of NUOL, and other organizations.**Project Period:** April 2003 – March 2006; 3 Years

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal			
FE will be able to produce IT human resources effectively to fill the demands of governmental / industrial sectors.	1. By the end of year 2010, there will be approximately 300 IT human resources for governmental/industrial sectors.	1.1 National Statistics 1.2 Survey report	1. The government continues to support to strengthen higher education in IT fields. 2. The demands for IT human resources in government / industrial sectors do not increase so much.
Project Purpose			
FE is capable to run a Bachelor degree course in Information Technology field.	1. By the end of year 2005, FE is able to run a Bachelor degree program in IT by itself. 2. At least 80% of admitted student are graduated every year.	1. NUOL yearly report 2. FE yearly report	Academic staff remains in the FE and NUOL
Outputs/ Results			
1. A Bachelor degree course in IT field is prepared and developed to meet the needs of society.	1. A curriculum of IT field is prepared and implemented. 2. The modified version of the original curriculum is recommended and imposed.	1.1 MOE report 1.2 Actual approved curriculum 1.3 IT curriculum evaluation report 1.4 NUOL annual report	
2. Management of facilities, tools and equipment in the Department of Electronics is improved.	2.1 One system for management of facilities, tools and equipment is improved. 2.2 Two supervisors are trained for management of the system.	2.1 FE regulations and observation 2.2 FE appointment	1. The government continues to support for strengthening higher education in IT fields. 2. Academic staff remains in the FE and NUOL.
3. Facilities, tools and equipment for IT program are sufficiently provided.	3.1 A set of Network equipment is provided. 3.2 A set of IT education equipments is provided. 3.3 A set of office equipments is provided.	3.1 List of equipment 3.2 List of equipment 3.3 List of equipment	
4. A number of teaching staff in IT field is to be assigned and trained for the course.	4.1 Approximately 10 regular teaching staffs are trained for instructional quality improvement. 4.2 Approximately 5 new teaching staffs are trained before the beginning of their teaching profession. 4.3 Approximately 10 teaching staffs are trained for a modified curriculum and project supervision.	4.1 FE appointment 4.2 FE appointment	
5. Teaching manuals/textbooks and glossary for IT subjects written in Lao Language are to be	5.1 Ten (10) textbooks are prepared and developed. 5.2 Teaching manuals are developed	5.1 List of textbooks 5.2 List of teaching	

ANNEX 1-3_PDM revised in August 2005

prepared and developed by the teaching staff of FE.	for 20 given subjects 5.3 One glossary of IT technical terms is prepared. 5.4 Teaching manuals and textbooks of additional 5 subjects are developed.	manuals 5.2 An IT glossary	
6. A number of bachelor degree graduates in the IT field are produced for FE, is government and private organization.	6. Approximately fifty graduates in IT field are produced by FE.	6. FE graduate report	
7. Research capability of FE teaching staff in IT and IT related fields is strengthened.	7.1 Approximately three simple research works are conducted. 7.2 Research groups (3-4 groups) are set up and lab space will be allocated accordingly. 7.3 Research promotion and motivation activity (such as robot contest) are held at least once a year.	7.1 Research report is published 7.2 Papers are presented /published in the proceedings/ journal/conferences	7. Researchers are remained at FE

Activities	Inputs to the activities		<Pre-conditions>
1. Curriculum Improvement 1.1 To improve the IT curriculum 1.2 To improve and develop syllabi and curriculum manual for the IT program 2. Effective Management of Facility and Equipments. 2.1 To prepare and update a list of facilities and equipment 2.2 To explore current problems of management of facilities and equipments 2.3 To determine the framework of the management 2.4 To prepare and implement regulation for facilities and equipment management 2.5 To train supervisors 2.6 To monitor and evaluate the use of facilities and equipment 2.7 To maintain facilities and equipments 3. Procurement of Facilities, tools and equipment for IT program 3.1 To survey and review the needs of facilities, tools and equipment 3.2 To procure facilities, tools and equipment 3.3 To distribute and keep record of facilities, tools and equipment 4. Teaching staff development 4.1 To select current teaching staff for IT department 4.2 To select new teaching staff for IT department 4.3 To train current teaching staff for IT department 4.4 To train new teaching staff for IT	<Japan> a) Dispatching Experts Long Term Experts - Engineering Technical Advisor (36~40 MM) Short Term Experts - Advisor for Teaching Material (22~26 MM) - Advisor for Curriculum Improvement (4~6 MM) - Advisor for Applied Computer (4~6 MM) - Advisor for Project (12~14 MM) - Lecturers (12~14 MM) Third Country Experts (Two experts per year for the period of three years 62~66 MM) - Curriculum development - Staff development - Preparation of teaching material - Advise of research methodologies Lecturers - Lecturers (44~48 MM) b) Equipments and consumable part for Lab. and final year projects and staff research activities. - PCs and software - Networking Equipments - Projector and Screen - Consumable parts & material - Copy Machines, Office supplies, etc. c) Support for seminars, workshop, exhibition and	<Laos> a) To nominate promised staffs those are to be assigned to IT subjects. b) To assign necessary teachers (Lec.) and teaching assistant (TA) for the course. - 1st Group: 8 lec, 8 TA - 2nd Group: 13 lec, 18 TA c) To assign teaching staffs for teaching materials preparation. d) Running expense for operation and management of the course: 101 Million LAK / group (10,100 USD) When 1USD=10600LAK) e) To assign administrative personals and management section. f) To provide necessary security for all laboratories and equipment. g) Office space and secretaries for JICA experts. h) To assign two coordinators i) To provide computer rooms and class rooms j) To assign necessary teachers (lecturer) and teaching assistant (TA) for the re-examination	The project is approved by the concerned authorities in Laos, Japan and Thailand (i.e., - Lao government, - Japanese government, - NOUL, JICA and KMITL).

department	conference participations	student group	
5. Teaching materials/textbooks and glossary preparation 5.1 To select participants for preparing IT glossary 5.2 To select committee of IT glossary 5.3 To conduct workshop in preparing IT glossary 5.4 To prepare drafts of IT glossary 5.5 To edit drafts of IT glossary 5.6 To print IT glossary 5.7 To select ten subjects for developing teaching materials/ textbooks 5.8 To select participants for developing teaching materials/ textbooks 5.9 To conduct workshop in preparing teaching materials/textbooks 5.10 To prepare drafts of teaching materials /textbooks 5.11 To edit drafts of teaching materials /textbooks 5.12 To print teaching materials/ textbooks	d) Costs for academic/research trips Totally four trips within project period. e) Costs for preparing teaching manual in Lao Language. - 20 Teaching manuals - 10 textbooks - 1 IT glossary - Syllabi manual (annual) - Annual research report f) Support to administrative costs for JICA expert's office. g) Support for temporary lecturers h) Support for attendance from Bangkok for the JCC meeting i) Training in Japan Each JFY, 2 best students are to be trained in Japan for 2 weeks or more.	<Thailand> a) To dispatch teaching staff as: Lecturers 44~48 MM Third Country Experts 62~66 MM - Curriculum development - Staff development - Preparation of teaching materials - Advise of research methodologies - Students project supervision b) To receive participants on study/research trip.	
6. Tentative Implementation of the IT program 6.1 To select students for IT program 6.2 To select and invite foreign and local lecturers for IT program 6.3 To monitor registration, orientation and enrollment for IT students 6.4 To monitor teaching and learning activities 6.5 To follow-up learning outcomes of the students 6.6 To organize study trip for IT student 6.8 To organize student project exhibition and graduation ceremony 6.9 To organize JCC meeting periodically (twice / year).			
7. Strengthen Research capabilities of FE teaching staff in IT and IT related fields 7.1 To train teaching staff of FE on research methodology 7.2 To conduct simple researches by the international joint researchers 7.3 To conduct seminars for dissemination of the research works 7.4. To promote academic exchange with other Universities (KMITL, universities in Japan, etc.) 7.5. To promote international joint research activities in the field of IT and IT related fields.			

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Narrative Summary	Verifiable Indicators (revised)	Means of Verification (revised)
Overall Goal 1. FE will be able to produce IT human resources effectively to fill the demands of governmental / industrial sectors.	Revise 1. By the end of year 2010, there will be approximately 300 IT human resources (as a total of 7 graduates' groups with a 80% passing rate) for governmental/industrial sectors. Additio 2. Most of the graduates from the IT course with Bachelor degree successfully utilize their skills of IT at their own office Additio 3. Most organizations or related governmental offices highly appreciate the IT course and its graduates' IT skills	1.1 National Statistics 1.2 Rport of Survey conducted by consultants or the project 1.3 Questionare to the companies which take the graduates from the course / Questionare to the graduates
Project Purpose 1. FE is capable to run a Bachelor degree course in Information Technology field.	Revise 1. By the end of year 2005, NUOL_FE is able to run a Bachelor degree program in IT by itself. Revise 2. At least 80% of admitted student are graduated every year, and the total graduates from the IT course reaches about 50 by the end of the project Additio 3. Through the IT course, many teaching staff with a Bachelor degree are developed and remained in the course to teach students. Additio 4. Most of current students and graduates highly appreciate the IT course.	1.1 NUOL yearly report 1.2 FE yearly report 1.3 Organizational chart of the IT course, List of Staff 1.4 Questionare to the graduates and the current students
Course as a whole		
Output		
1. A Bachelor degree course in IT field is prepared and developed to meet the needs of society.	Revise 1. A curriculum of IT field is prepared, recommended by the authority, and implemented. Additio 2. Social needs for IT human resources are investigated and analyzed periodically, on which the curriculum are revised. Additio 3. Most of current students and graduates highly appreciate the curriculum developed in the course.	1.1 MOE report 1.2 Approval evidence of the curriculum developed 1.3 IT curriculum evaluation report 1.5 NUOL annual report
2. Management capability of facilities, tools and equipment in the Department of Electronics is improved.	Revise 2.1 To prevent any problems of the facilities and equipments, the management system is utilized Revise 2.2 Two supervisors appointed in FE are trained for the purpose of the management of the facilities and equipments input in the project Additio A framework for management of facilities and equipments (rules, inventory lists, monitoring reports, etc) is prepared and utilized	2.1 FE regulations and observation 2.2 Training report submitted by supervisors or person in charge 2.3 Management rule, inventory list, Monitoring reports
3. Facilities, tools and equipment for IT program are sufficiently provided.	Additio 3.1 A register of the equipments procured is properly prepared Additio 3.2 Am inventory of the equipments procured is properly prepared	Additio Register book Additio Inventory list
4. A number of teaching staff in IT field is to be assigned and trained for the course.	Additio 4.1 Approximately 10 regular teaching staffs are trained for instructional quality improvement.	Additio 4.1 Training reports submitted by training participants

Revise for better reflection of its activities

Procurement

Facilities, tools and equipment for IT program are properly procured

Narrative Summary	Verifiable Indicators (revised)	Means of Verification (revised)
Staff development 5. Teaching manuals/textbooks and glossary for IT subjects written in Lao Language are to be prepared and developed by the teaching staff of FE.	4.2 Approximately 5 new teaching staffs are trained before the beginning of their teaching profession.	Additional 4.2 Training rule for the teaching staff, Training manuals for the teaching staff
	4.3 Approximately 10 teaching staffs are trained for a modified curriculum and project supervision.	
	4.4 Training framework for the new and current teaching staffs are prepared.	Additional 5.1 List of textbooks 5.2 List of teaching manuals 5.2 An IT glossary
	5.1 Ten (10) textbooks are prepared and developed.	
	5.2 Teaching manuals are developed for 20 given subjects	
Material development 6. A number of bachelor degree graduates in the IT field are produced for FE, is government and private organization. Revise for better reflection of its activities	5.3 One glossary of IT technical terms is prepared.	
	5.4 Teaching manuals and textbooks of additional 5 subjects are developed.	Additional Questionnaire to the graduates and the current students
	5.5 Most of the current students, the graduates and the teaching staff appreciate materials (15 textbooks and 1 glossary) developed in the IT course	Additional Questionnaire to the staff in charge of the Material development
	5.6 Those materials developed in the IT course are periodically revised by the FE teaching staff.	Additional Project report
	Study-tour, commencement, Seminar are at least once executed during the project	Additional Questionnaire to the students and graduates
Operational & Administration 7. Research capability of FE teaching staff in IT and IT related fields is strengthened.	4. An organization or system is established for management and administration of the course	Additional 1.4 Questionnaire to the graduates and the current students
	The operation and administration of the course are highly appreciated by the students and graduates	
	7.1 Approximately three simple research works (i.e., designing of study, collecting of data, and analyzing from the data) are conducted.	7.1 Research report is published
	7.2 Research groups (3-4 groups) are set up and lab space will be allocated accordingly.	Additional 7.2 List of Papers which are shown or published in the proceedings/journal/conferences
	7.3 Research promotion and motivation activity (such as robot contest) are held at least once a year.	Additional 7.3 List of activities conducted for promoting researchs.

2) Analysis on Five Evaluation Criteria

Five Evaluation Criteria To be checked		Corresponding No. in "Achievement & Process"	Other means to obtain info.
Main points	Specific Questions		
Relevance			
- Consistency with the development policy in Laos			
	- Whether the overall goal is set according to the Lao development policy "NSED: National Socio-Economic Development Plan" (2001-2005)		MOE
	- Whether the project purpose, namely "FE is capable to run a Bachelor degree course in Information Technology field" is still line with social needs for IT human resources in Lao PDR		MOE Industrial Sector Needs Survey report
- Consistency with Japanese policy			
	- Whether the project purpose, namely "FE is capable to run a Bachelor degree course in Information Technology field" is still line with the Country Strategy developed by Japanese Government		MOFA JICA
- Appropriateness of selection of target groups			
PDM	- Whether the PDM and its contents are planned by all stakeholders, namely Japanese experts, the third country experts, and Lao counterparts		Ex-ante evaluation by JICA
	- How the PDM were formulated?		Ex-ante evaluation by JICA
	- During the project, whether the PDM are revised or shared by all stakeholders according to the actual Lao situation	52-53	
Project purpose	- Whether the project purpose, namely "FE is capable to run a Bachelor degree course in Information Technology field" are relevant		Logical analysis of PDM
	- Whether the project purpose, namely "FE is capable to run a Bachelor degree course in Information Technology field" are matched for the needs of target beneficiaries		MOE Industrial Sector Needs Survey report
Target groups	- Whether the selection of target groups was appropriate		Ex-ante evaluation by JICA
	- Whether the project purpose meets the needs of target groups		Ex-ante evaluation by JICA
	- Whether the project are planned for matching the needs of beneficiaries		Ex-ante evaluation by JICA
- Relevance of Project approach			
Logic	- Whether the project purpose can contribute to achieve the overall goal, namely "FE will be able to produce IT human resources effectively to fill the demands of governmental / industrial sectors"		Logical analysis of PDM
	- Whether each outputs are relevant in logical to achieve the project purpose		Logical analysis of PDM
Approach	- Whether the cooperation with the third country experts are relevant for realizing the project purpose	116- 119, confirm separately	
	- Whether the scheme of cooperation by domestic organizations (Tokai university, Meiji University) is relevant for realizing the project purpose	116- 119, confirm separately	
	- Whether the distance learning by utilizing JICA-NET are relevant for realizing the project purpose	110, confirm separately	
Effectiveness			
- Probability of achieving the	- Whether the Project Purpose is likely to be achieved by the end of the project completion	Output 3 achievement 36-46	
- Contribution of the outputs	- Whether the effects (project purpose) are generated by the achievement of project outputs 1-6 めるか?		Logical analysis of PDM --> relevancy
	- Whether capacity of teaching by Lao staff, R&D capability by Lao staff, Materials development, and establishment of course management are all achieved by the project	Output 2 Achievement 2-7, 9-12, 14-21, 23-29, 31-34, AB	
- Influence of the important	- Whether important assumptions occurred.	8,13,22,30,35	
	- If so, check how they affected the project implementation, what measures the project took	8,13,22,30,35	
- Promoting / hampering factors	- If the Project purpose is likely to be achieved by the end of the project completion, identify the promoting factors	Output 2 Achievement 2-7, 9-12, 14-21, 23-29, 31-	
	- If the Project purpose is not likely to be achieved by the end of the project completion, identify the hampering factors	8,13,22,30,35	
Efficiency			
- Conversion of the input to	- (Human resources input) Whether the Outputs are reasonable for the amount of Japanese short-term experts, long term experts, the third-country experts, and Lao counterparts. Whether fully utilized?	Input record 1	
	- (Facility & Equipments) Whether the Outputs are reasonable for the quality / quantity/ timing or inputs are appropriate for output, Whether fully utilized?	Input record 1	
	- (Acceptance to Japanese training) Whether counterparts are accepted to training in Japan, Whether any the third country training was occurred	Input record 1	
	- (Output1) Whether the all input (Japanese experts, KMITL, Lao counterparts) are reasonable in quality / quantity /timing for Curriculum development. Whether fully utilized?	Implementation Process 58-61	
	- (Output2+3) Whether all input (Japanese experts, KMITL, Lao counterparts) are reasonable in quality / quantity /timing for improving the management capability of facility and equipments in Laboratory.	Implementation Process 62-70	

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Five Evaluation Criteria		To be checked	Corresponding No. in "Achievement & Process"	Other means to obtain info.
	Main points	Specific Questions		
		- (Output 4) Whether all inputs (Japanese experts, KMITL, Lao counterparts) are reasonable in quality / quantity /timing for developing teaching staff capacity. Whether fully utilized	Implementation Process 71-78	
		- (Output 5) Whether all inputs (Japanese experts, KMITL, Lao counterparts) are reasonable in quality / quantity /timing for developing materials (textbooks and grossary) and manuals. Whether fully utilized.	Implementation Process 79-92	
		- (Output 7) Whether all input (Japanese experts, KMITL, Lao counterparts) are reasonable in quality / quantity /timing for improving the capability of R&D by Lao staff. Whether fully utilized	Implementation Process 93-100	
- Promoting / hampering factors		- Whether internal factors influenced to converting input to outputs	61,70,78,92,100	
		- Whether important assumption influenced to converting input to outputs, and how the project reacted	61,70,78,92,100	
- Cooperation with other organizations		- Whether there has the relationship or cooperatio with other faculty of NUOL during the project	120	
		- whether there are other relationships with other related organizaition (other departments of NUOL, other faculties, or other laboratory)	120	
		- If so, what kind of influene are there on the achievement of project purpose?	120	
- Revision of PDM		- Is the PDM revised according to the actual situation in Lao PDR? Was it adequate? Whether it is appropriate	52	
Impact				
- Probability of achieving the overall goal		- Whether the overall goal, namely, "FE will be able to produce IT human resources effectively to fill the demands of governmental / industrial sectors" will be achieved because of this project	Output 4 proupsect of overallgoal 47-51	
		- Whether the achievement of the project purpose will contribute to achieving the Overall Goal		Logical analysis of PDM --> relevency
- Other impacts		- Whether there will be / are other impacts (positive/negative) generated by the project implementation	C	
Sustainability				
(1 Prospect of the effects generated by the project)		- Whether the IT course established by the project are likely to be kept after the project completion (1. management system, 2. Equipments&Facilities, 3. Coordination, and 4. counrse managemnet)	Analysis based on Achievement and Process	
		- Whether the capability of teaching by Lao staff will be kept without any assistance from Japanese experts and KMITL in 1. lectures to studenst, 2. teaching project, and 3. R&D		
		- If not, identify what the obstacles are		
(2 Institutional/political aspects)		- Whether the Lao government (MOE) will maintain the policy on NUOL_ IT course t as it is now		
		- Whether the Lao government has prepared policies to support higher eduvcation and IT human resources		
		- Whether the course management system (IT committee and project coordinator by Lao staff) will be kept after 2006, and CP trained staff through the project will be remained		
(3 Financial aspects)		- Whether the fund or financial measures for NUOL_FE will be taken/secured after the project completion		
		- Whether any system for securing IT course operation by NUOL_FE by itself has been established		
		- Whether NUOL_FE has considred or planned or installed their own measures to financially operate IT course by itself. Whether any system to generate own revenue to maintain their facilities and equipments		
(4 Technical aspects)		- Whether the C/P's skills/techniques acquired in the projects (such as how to manage and operate the course)will be maintained after the project completion.		
		- Whether the counterparts have any tools or means to upgrade the skills/techniques acquired through the project after the project completion.		
		- If not, what are the reasons for this?		
		- If not, what measures should be taken for the future? If yes, what are the specific tools/means?		
		- Whether the efacilities and quipment will be maintained well		
		- Whether budget, human resources, and operation and maintenance system of the course will be prepared		

添付2: 投入実績 2-1 日本人専門家リスト

Long-term expert = 1 person 36 months

Short-term expert = 70 persons 34 months

	Expert in	Name of Expert	Start	End	Days	Month
Year 2003						
1	Chief Advisor	Mr. Susumu IKEDA	1-Apr-03	31-Mar-04	360	12.00
2	Applied Computer	Prof. Dr. Noriyuki KOMINE	10-Aug-03	18-Aug-03	9	0.30
3	Introduction to IT	Prof. Dr. Shozo KONDO	3-Aug-03	18-Aug-03	16	0.53
4	Digital Computer System	Prof. Dr. Moriyuki MATSUO	17-Aug-03	1-Sep-03	15	0.50
5	Teaching Material	Prof. Dr. Shigenori TOMIYAMA	10-Aug-03	18-Aug-03	9	0.30
6	Curriculum Improvement	Prof. Dr. Shigeyuki OHARA	10-Aug-03	18-Aug-03	9	0.30
7	Introduction to Data Communication	Prof. Dr. Tetsushi IKEGAMI	23-Nov-03	14-Dec-03	22	0.73
8	Digital Computer System	Prof. Dr. Moriyuki MATSUO	19-Feb-04	17-Mar-04	27	0.90
9	Internet and Web Technology	Prof. Dr. Hisao TAMAKI	29-Feb-04	14-Mar-04	15	0.50
10	Introduction to IT	Prof. Dr. Shozo KONDO	9-Mar-04	21-Mar-04	13	0.43
11	Teaching Material	Prof. Dr. Shigenori TOMIYAMA	14-Mar-04	23-Mar-04	10	0.33
12	Curriculum Improvement	Prof. Dr. Shigeyuki OHARA	14-Mar-04	28-Mar-04	20	0.67
13	Applied Computer	Prof. Dr. Noriyuki KOMINE	10-Mar-04	30-Mar-04	21	0.70
14	Project Advisors	Prof. Dr. Toshio WAKABAYASHI	9-Mar-04	20-Mar-04	14	0.47
Year 2004						
15	Chief Advisor	Mr. Susumu IKEDA	1-Apr-04	31-Mar-05	360	12.00
16	Special Lecture in IT	Prof. Dr. Masaaki KANDO	14-Aug-04	29-Aug-04	16	0.53
17	Special Lecture in IT	Prof. Dr. Toshio IJIMA	4-Aug-04	18-Aug-04	15	0.50
18	Special Lecture in IT	Prof. Dr. Tadashi ARIGA	11-Aug-04	25-Aug-04	15	0.50
19	Teaching Material	Prof. Dr. Moriyuki MATSUO	5-Aug-04	19-Aug-04	15	0.50
20	Teaching Material	Prof. Dr. Shigenori TOMIYAMA	8-Aug-04	19-Aug-04	12	0.40
21	Teaching Material	Prof. Dr. Shozo KONDO	8-Aug-04	19-Aug-04	9	0.30
22	Curriculum Improvement	Prof. Dr. Shigeyuki OHARA	8-Aug-04	22-Aug-04	15	0.50
23	Applied Computer	Prof. Dr. Noriyuki KOMINE	1-Aug-04	21-Aug-04	21	0.70
24	Project Advisors	Prof. Dr. Hiroaki KIKUCHI	8-Aug-04	17-Aug-04	10	0.33
25	Project Advisors	Prof. Dr. Hidekazu TSUJI	9-Aug-04	20-Aug-04	12	0.40
26	Project Advisors	Prof. Dr. Kazuhiro HAMAMOTO	11-Aug-04	21-Aug-04	11	0.37
27	Project Advisors	Prof. Dr. Toshio WAKABAYASHI	8-Aug-04	15-Aug-04	8	0.27
28	Introduction to Data Communication	Prof. Dr. Tetsushi IKEGAMI	20-Sep-04	27-Oct-04	38	1.27
29	Applied Computer	Prof. Dr. Noriyuki KOMINE	30-Oct-04	7-Nov-04	8	0.27
30	IT Course Management	Mr. Makoto TATEWAKI	22-Dec-04	29-Dec-04	8	0.27
31	IT Course Management	Mr. Hideyoshi TAGUMA	22-Dec-04	29-Dec-04	8	0.27
32	Information Technology	Prof. Dr. Shozo KONDO	22-Dec-04	29-Dec-04	8	0.27
33	Internet and Web Technology	Prof. Dr. Hisao TAMAKI	27-Feb-05	20-Mar-05	22	0.73
34	Teaching Material	Prof. Dr. Moriyuki MATSUO	6-Mar-05	20-Mar-05	15	0.50
35	Teaching Material	Prof. Dr. Shigenori TOMIYAMA	6-Mar-05	20-Mar-05	15	0.50
36	Teaching Material	Prof. Dr. Shozo KONDO	8-Mar-05	22-Mar-05	15	0.50
37	Curriculum Improvement	Prof. Dr. Shigeyuki OHARA	6-Mar-05	13-Mar-05	8	0.27
38	Curriculum Improvement	Prof. Dr. Shigeyuki OHARA	18-Mar-05	27-Mar-05	11	0.37
39	Project Advisors	Prof. Dr. Hiroaki KIKUCHI	2005/3/6	2005/3/19	14	0.47
40	Project Advisors	Prof. Dr. Hidekazu TSUJI	2005/3/6	2005/3/20	15	0.50
41	Project Advisors	Prof. Dr. Kazuhiro HAMAMOTO	2005/3/6	2005/3/20	15	0.50
42	Project Advisors	Prof. Dr. Toshio WAKABAYASHI	2005/3/6	2005/3/20	15	0.50
43	Research Advisors	Prof. Dr. Tadashi ARIGA	2005/3/6	2005/3/20	15	0.50
44	Research Advisors	Prof. Dr. Toshio IJIMA	2005/3/6	2005/3/20	15	0.50
45	Research Advisors	Prof. Dr. Noriyuki KOMINE	2005/3/6	2005/3/20	15	0.50
Year 2005						
46	Chief Advisor	Mr. Susumu IKEDA	1-Apr-05	31-Mar-06	360	12.00
47	Digital Computer	Prof. Dr. Hidekazu TSUJI	6-Aug-05	20-Aug-05	15	0.50
48	Robotics	Prof. Dr. Kazuhiro HAMAMOTO	6-Aug-05	20-Aug-05	15	0.50
49	Electrical Material	Prof. Dr. Tadashi ARIGA	6-Aug-05	20-Aug-05	15	0.50
50	Digital Computer	Prof. Dr. Moriyuki MATSUO	6-Aug-05	20-Aug-05	15	0.50
51	Information Technology	Prof. Dr. Toshio WAKABAYASHI	7-Aug-05	21-Aug-05	15	0.50
52	Automatic Control	Prof. Dr. Toshio IJIMA	7-Aug-05	21-Aug-05	15	0.50
53	Applied Computer	Prof. Dr. Noriyuki KOMINE	7-Aug-05	21-Aug-05	15	0.50
54	Information Communication Tech.	Prof. Dr. Shigenori TOMIYAMA	7-Aug-05	22-Aug-04	16	0.53
55	Information Engineering	Prof. Dr. Shozo KONDO	7-Aug-05	21-Aug-04	15	0.50
56	Computer Network	Prof. Dr. Hiroaki KIKUCHI	8-Aug-05	23-Aug-05	16	0.53
57	Information Technology	Prof. Dr. Shigeyuki OHARA	9-Aug-05	23-Aug-05	15	0.50
58	Telecommunication Engineering	Prof. Dr. Tetsushi IKEGAMI	29-Oct-05	9-Nov-05	12	0.40
59	DC Motor Control by Microcomputer	Mr. Ryosuke SAKAI	2-Nov-05	9-Nov-05	8	0.27
60	IT Course Administration	Ms. Akiko KAJITA	19-Nov-05	27-Nov-05	15	0.50
61	Information Technology	Prof. Dr. Toshio WAKABAYASHI			15	0.50
62	Information Technology	Prof. Dr. Shigeyuki OHARA			15	0.50
63	Information Technology	Prof. Dr. Toshio WAKABAYASHI			15	0.50
64	Automatic Control	Prof. Dr. Toshio IJIMA			15	0.50
65	Internet and Web Technology	Prof. Dr. Hisao TAMAKI			15	0.50
66	Computer Network	Prof. Dr. Hiroaki KIKUCHI			15	0.50
67	Digital Computer	Prof. Dr. Shuichi TSUJI			15	0.50
68	Robotics	Prof. Dr. Kazuhiro HAMAMOTO			15	0.50
69	Electrical Material	Prof. Dr. Tadashi ARIGA			15	0.50
70	Digital Computer	Prof. Dr. Moriyuki MATSUMOTO			15	0.50
71	Applied Computer	Prof. Dr. Noriyuki KOMINE			15	0.50
72	Information Communication Tech.	Prof. Dr. Shigenori TOMIYAMA			15	0.50
73	Information Engineering	Prof. Dr. Shozo KONDO			15	0.50

添付2: 投入実績 2-2 第三国専門家リスト(KMITL)

Short-term expert = 104 persons 156 months (Lecturers = 92 persons 55 months) TCEs = 12 persons 101 months)

	Expert in	Name of Expert	Start	End	Days	Month
Year 2003						
1	Discrete Mathematics	Ms. Suteera Puntheeranurak	26-May-03	24-Jun-03	30	1.00
2	Computer Programming II	Mr. Somkiat Wangsiriipitak	23-Jun-03	22-Jul-03	30	1.00
3	Introduction to Telecommunication	Ms. Panarat Rasiwan	1-Sep-03	30-Sep-03	30	1.00
4	Probability and Statistics	Assoc.Prof.Dr. Pitikhate Sooraksa	1-Sep-03	30-Sep-03	30	1.00
5	Data Structure and Algorithms	Mr. Puchong Hongsuwan	13-Oct-03	11-Nov-03	30	1.00
6	Electronic Engineering Field	Assoc.Prof.Dr. Somsak Choomchuay	16-Oct-03	14-Nov-03	30	1.00
7	Computer Engineering Field	Mr. Wiboon Promphanich	16-Oct-03	14-Nov-03	30	1.00
8	Electronic Engineering Field	Assoc.Prof.Dr. Somsak Choomchuay	20-Nov-03	10-Oct-03	17	0.57
9	Computer Engineering Field	Mr. Wiboon Promphanich	20-Nov-03	10-Oct-03	17	0.57
10	Computer Network	Mr. Amnach Khawne	5-Jan-04	3-Feb-04	30	1.00
11	Electronic Engineering Field	Assoc.Prof.Dr. Somsak Choomchuay	12-Jan-04	21-Jan-04	10	0.33
12	Computer Engineering Field	Mr. Wiboon Promphanich	12-Jan-04	21-Jan-04	10	0.33
13	Computer Programming I	Mr. Prasarn Tangtisanon	26-Jan-04	24-Feb-04	30	1.00
14	Computer Programming I	Mr. Prasarn Tangtisanon	22-Mar-04	31-Mar-04	10	0.33
15	Database System	Mr. Thana Hongsuwan	2-Feb-04	2-Mar-04	30	1.00
16	Computer Network Security	Mr. Thana Hongsuwan	11-Mar-04	9-Apr-04	30	1.00
17	Information System Analysis and Design	Mr. Kietkul Jearanaitanakij	11-Mar-04	9-Apr-04	30	1.00
18	Digital and Applied Computer	Asst.Prof.Dr. Attasit Lasakul	20-Feb-04	12-Mar-04	26	0.87
19	Digital and Applied Computer	Asst.Prof.Dr. Attasit Lasakul	15-Mar-04	2-Apr-04	19	0.63
20	Project I	Dr. Somsak Walairacht	1-Mar-04	13-Mar-04	13	0.43
21	Project I	Dr. Visit Hirankitti	1-Mar-04	13-Mar-04	13	0.43
22	Project I	Mr. Charoen Vongchumyen	1-Mar-04	13-Mar-04	13	0.43
Year 2004						
23	Computer Engineering	Mr. Wiboon Promphanich	9-Feb-04	31-Jan-05	360	12.00
24	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchuay	9-Feb-04	31-Jan-05	360	12.00
25	Computer Programming II (Java)	Dr. Aranya Walairacht	19-Apr-04	18-May-04	30	1.00
26	Computer Programming II (Java)	Dr. Somsak Walairacht	19-Apr-04	18-May-04	30	1.00
27	Project I	Mr. Charoen Vongchumyen	3-May-04	15-May-04	13	0.43
28	Project I	Dr. Visit Hirankitti	3-May-04	15-May-04	13	0.43
29	Introduction to Telecommunication	Assoc.Prof. Chawalit Benjangkaprasert	17-May-04	15-Jun-04	30	1.00
30	Management Information System	Assoc.Prof. Pratheep Bunyatnparat	17-May-04	15-Jun-04	30	1.00
31	E-Commerce	Assoc.Prof.Dr. Boonwat Attachoo	14-Jun-04	27-Jun-04	14	0.47
32	E-Commerce	Assoc.Prof.Dr. Boonwat Attachoo	19-Jul-04	27-Jul-04	9	0.30
33	Project I	Dr. Somsak Walairacht	12-Jul-04	16-Jul-04	5	0.17
34	Project I	Mr. Charoen Vongchumyen	12-Jul-04	16-Jul-04	5	0.17
35	Project I	Dr. Visit Hirankitti	12-Jul-04	16-Jul-04	5	0.17
36	Project I	Dr. Somsak Walairacht	9-Aug-04	14-Aug-04	6	0.20
37	Project I	Mr. Charoen Vongchumyen	9-Aug-04	14-Aug-04	6	0.20
38	Project I	Dr. Visit Hirankitti	9-Aug-04	14-Aug-04	6	0.20
39	Linux Programming	Assoc.Prof.Dr. Boontee Kruatrachue	23-Sep-04	22-Oct-04	30	1.00
40	Sattelite Communication	Assoc.Prof.Dr. Kanok Janchitrapongvej	30-Aug-04	28-Sep-04	30	1.00
41	Project II	Ms. Kritawan Siriboon	27-Sep-04	5-Oct-04	9	0.30
42	Project II	Dr. Voravat Limpoka	27-Sep-04	5-Oct-04	9	0.30
43	Project II	Dr. Chutimet Srinilta	27-Sep-04	5-Oct-04	9	0.30
44	Fiber Optic	Asst.Prof. Noppin Anantrasirichai	25-Oct-04	23-Nov-04	30	1.00
45	Data Structure and Algorithms	Asst.Prof. Mayuree Lertwatechakul	25-Oct-04	23-Nov-04	30	1.00
46	Project II	Ms. Kritawan Siriboon	6-Dec-04	24-Dec-04	19	0.63
47	Project II	Dr. Voravat Limpoka	6-Dec-04	24-Dec-04	19	0.63
48	Project II	Dr. Chutimet Srinilta	6-Dec-04	24-Dec-04	19	0.63
49	Computer Network	Dr. Sakchai Thipchaksurat	10-Jan-05	8-Feb-05	30	1.00
50	Data Base System	Mr. Charoen Vongchumyen	10-Jan-05	8-Feb-05	30	1.00
51	Information System Analysis and Design	Dr. Chutimet Srinilta	7-Feb-05	8-Mar-05	30	1.00
52	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchuay	21-Feb-05	19-Mar-05	27	0.90
53	Computer Engineering	Mr. Wiboon Promphanich	21-Feb-05	19-Mar-05	27	0.90
54	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchuay	23-Mar-05	7-Apr-05	16	0.53
55	Computer Engineering	Mr. Wiboon Promphanich	23-Mar-05	7-Apr-05	16	0.53
56	Computer Engineering	Mr. Thanunchai Threepak	6-Feb-05	19-Feb-05	14	0.47
57	Robotics	Asst.Prof.Dr. Attasit Lasakul	1-Mar-05	19-Mar-05	19	0.63
58	Project I	Mr. Puchong Hongsuwan	8-Mar-05	17-Mar-05	10	0.33
59	Project I	Ms. Peangduen Satayarak	8-Mar-05	17-Mar-05	10	0.33
60	Project I	Assoc.Prof.Dr. Pitikhate Sooraksa	8-Mar-05	17-Mar-05	10	0.33
61	Project I	Assoc.Prof.Dr. Surapun Airphaiboon	8-Mar-05	17-Mar-05	10	0.33
62	Project I	Dr. Somkait Udomhunsakul	8-Mar-05	17-Mar-05	10	0.33

Year 2005						
63	Computer Engineering	Assoc.Prof. Somsak Mitatha	15-Nov-04	13-Nov-05	364	12.13
64	Telecommunication	Asst.Prof.Dr. Suthichai Noppanakeepong	13-Dec-04	10-Dec-05	363	12.10
65	Robotics	Asst.Prof.Dr. Attasit Lasakul	1-Jun-04	31-Jan-05	210	7.00
66	E-Commerce	Mr. Watjanapong Kasemsiri	18-Apr-05	17-May-05	30	1.00
67	Applied Computer (Robot)	Asst.Prof.Dr. Attasit Lasakul	20-Apr-05	14-May-05	28	0.93
68	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchay	25-Apr-05	4-May-05	10	0.33
69	Computer Engineering	Mr. Wiboon Promphanich	19-Apr-05	28-Apr-05	10	0.33
70	Project I	Asst.Prof. Mayuree Lertwatechakul	14-May-05	23-May-05	10	0.33
71	Project I	Assoc.Prof.Dr. Pitikhate Sooraksa	14-May-05	23-May-05	10	0.33
72	Project I	Mr. Puchong Hongsuwan	18-May-05	27-May-05	10	0.33
73	MIS	Assoc.Prof.Dr. Kanchit Maitree	30-May-05	28-Jun-05	30	1.00
74	Sattelite Communication	Assoc.Prof.Dr. Kanok Janchitrapongvej	27-Jun-05	26-Jul-05	30	1.00
75	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchay	7-Aug-05	5-Sep-05	30	1.00
76	Project I	Ms. Peangduen Satayarak	9-Aug-05	18-Aug-05	10	0.33
77	Project I	Mr. Boonchana Purahong	9-Aug-05	18-Aug-05	10	0.33
78	Project I	Mr. Puchong Hongsuwan	9-Aug-05	18-Aug-05	10	0.33
79	Fiber Optic	Asst.Prof. Noppin Anantrasirichai	5-Sep-05	4-Oct-05	30	1.00
80	Digital Signal Processing	Dr. Trinh Van Loan	19-Sep-05	7-Oct-05	19	0.63
81	Simulation of Communication System	Dr. Nguyen Linh Giang	19-Sep-05	7-Oct-05	19	0.63
82	Programmable Logic Control	Dr. Diew Koolpiruck	3-Oct-05	14-Oct-05	12	0.40
83	Project II	Asst.Prof. Mayuree Lertwatechakul	5-Oct-05	14-Oct-05	10	0.33
84	Project II	Mr. Boonchana Purahong	5-Oct-05	14-Oct-05	10	0.33
85	Project II	Mr. Puchong Hongsuwan	5-Oct-05	14-Oct-05	10	0.33
86	Applied Computer (Robot)	Prof. Dr. Shamsudin H.M. Amin	6-Nov-05	10-Nov-05	5	0.17
87	Project II	Ms. Peangduen Satayarak	16-Nov-05	25-Nov-05	10	0.33
88	Project II	Mr. Boonchana Purahong	16-Nov-05	25-Nov-05	10	0.33
89	Project II	Mr. Puchong Hongsuwan	16-Nov-05	25-Nov-05	10	0.33
90	Project II	Asst.Prof. Mayuree Lertwatechakul	15-Dec-05	24-Dec-05	10	0.33
91	Project II	Assoc.Prof.Dr. Pitikhate Sooraksa	15-Dec-05	24-Dec-05	10	0.33
92	Project II	Mr. Puchong Hongsuwan	15-Dec-05	24-Dec-05	10	0.33
97	Computer Engineering	Mr. Wiboon Promphanich	6-Mar-06	30-Mar-06	25	0.83
98	Electronic Engineering	Assoc.Prof.Dr. Surapan Airphaiboon	1-Jun-05	31-Mar-06	300	10.00
99	Information Engineering	Dr. Somkait Udomhunsakul	1-Jun-05	31-Mar-06	300	10.00
100	Computer Engineering	Mr. Wiboon Promphanich	9-May-05	28-Feb-06	300	10.00
101	Robotics	Asst.Prof.Dr. Attasit Lasakul	1-Jun-05	31-Mar-06	300	10.00
102	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchay	9-May-05	7-Jul-05	60	2.00
103	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchay	1-Nov-05	30-Dec-05	60	2.00
104	Electronic Engineering	Assoc.Prof.Dr. Somsak Choomchay	1-Feb-06	31-Mar-06	60	2.00
					Lecturers	53.37
					TCEs	101.23
					Total	154.60

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添付2: 投入実績 2-3 カウンターパート研修(日本、タイ)参加者リスト

Training in Japan (26 September - 10 October 2004)

1	Prof.Dr. Somkot Mangnomek	President of NUOL
2	Dr.Saykhong Saynasine	Dean of FE
3	Ms. Nouanchanh Panyanouvong	Acting Head of Electronic Department
4	Mr. Sibounheuang Sonelothsath	Student
5	Mr. Sengaloun Keolounxay	Student

Training in Thailand (15-26 December 2003)

1	Prof.Dr. Somkot Mangnomek	President of NUOL
2	Assoc.Prof.Dr. Saykhong Saynasinh	Dean of FE
3	Mr. Ikeda Susumu	JICA Expert
4	Mr. Phouang Phouthavong	IT Project Coordinator
5	Mr. Vixay Vankham	IT Project Coordinator Assistance
6	Ms. Nouanchanh	IT Project Coordinator Assistance
7	Mr. Donekeo Lakanchanh	Student
8	Mr. Keokanlaya Sihath	Student
9	Mr. Anosith Philavong	Student
10	Mr. Sangaloun Keolounxay	Student
11	Ms. Phouphieng Khenkhisack	Student
12	Mr. Bounhome Chansavang	Student
13	Mr. Phannavong Bounphasouk	Student
14	Ms. Manikhom Dokdouangnaly	Student
15	Mr. Phonexay Khammavong	Student
16	Ms. Phiwilavanh Sihaphon	Student
17	Mr. Oulaphanh Bounnasy	Student
18	Mr. Soukphachane Chanthavon	Student
19	Mr. Bounthavy Sayapheth	Student
20	Mr. Opaseuth Siharath	Student
21	Mr. Khamphone Chanthala	Student
22	Mr. Kayaseng Siriphokha	Student
23	Mr. Sengchanh Homsylahack	Student
24	Mr. Aksonsinh Laungamath	Student
25	Mr. Saysamone Ratsavong	Student
26	Mr. Thongkhan Sysouphanthong	Student
27	Mr. Phayvanh Pathammavong	Student
28	Ms. Malayphone Soulygnavong	Student
29	Ms. Patithak Keophomma	Student
30	Mr. Thiengtham Keopasith	Student
31	Mr. Sibounheuang Sonelothsath	Student
32	Ms. Vanida Vorasarn	Student
33	Mr. May Phakonekham	Student

Training in Thailand (27 November - 11 December 2004)

1	Prof.Dr. Somkot Mangnomek	President of NUOL
2	Assoc.Prof.Dr. Saykhong Saynasinh	Dean of FE
3	Mr. Ikeda Susumu	JICA Expert
4	Ms. Yuki Yoshimura	JICA Staff
5	Mr. Khamla Chanthavong	IT Project Coordinator
6	Mr. Tha Bounthan	IT Project Coordinator Assistance
7	Mr. Somsanouk Pathoumvanh	IT Project Coordinator Assistance
8	Ms. Douangsamone Phetsomphou	IT Project Coordinator Assistance
9	Ms. Daoheuang Siboriboune	IT Project Coordinator Assistance
10	Ms. Phaivanh Bounhacksa	IT Project Coordinator Assistance
11	Mr. Houmphanh Vongphachan	Student
12	Mr. Singsoutho Sykhotchounelamaly	Student
13	Mr. Khomdeth Chitpasong	Student
14	Mr. Thongkham Soulinaseng	Student
15	Mr. Larbbotham Oupary	Student
16	Mr. Thongsing Sivongsay	Student
17	Mr. Nongkhane Rasachack	Student
18	Mr. Gnoukxay Kittilathangsy	Student
19	Mr. Monesay Hadaoheuang	Student
20	Mr. Sisamone Srithirath	Student
21	Mr. Phonesavath Khongsavath	Student
22	Mr. Anissack Soukthavone	Student
23	Mr. Chanthasone Boulom	Student
24	Mr. Saysawan Phommachanh	Student
25	Mr. Phouviengkham Rattanavichit	Student
26	Mr. Vongsavanh Soysouvanh	Student
27	Mr. Somsak Seangsouk	Student
28	Mr. Khinkham Lengsavath	Student
29	Mr. Sengpheth Sivongxay	Student
30	Mr. Oulahpong Bounnasy	Student
31	Mr. Malaseum Sivongxay	Student
32	Mr. Phayboun Phakeovilay	Student
33	Mr. Anousone Luangnotha	Student
34	Mr. Anothai Phomsombath	Student
35	Mr. Vilathap Vivavong	Student
36	Mr. Xaysana Keo-oudom	Student
37	Mr. Silisack Keophouvang	Student
38	Ms. Phiangphaneth Phonglasy	Student
39	Ms. Phengthala Lorvanleuang	Student
40	Mr. Sonexay Songvilay	Student
41	Mr. Bounmy Phanthavong	Student
42	Mr. Sunetto Xaphakdy	Student
43	Mr. Khammany Phengvansavanh	Student

44	Mr. Xaysomphone Havannalath	Student
45	Mr. Thepphakone Sichanh	Student
46	Mr. Ratsamy Thammavongsa	Student
47	Mr. Thephalith Waghetsky	Student

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2-4 Operational expenses of the project the Project-
Total Operation Expenses of the IT Bridging Course as of Nov. 2005

Year 2003	Budget (unit:USD)	Achievement (unit:USD)
1st Quarter	27,583.91	10,608.00
2nd Quarter	13,129.00	30,105
3rd Quarter	45,131.00	42,859.00
4th Quarter	70,868.00	73,140.00
Total	156,711.91	156,711.91
Year 2004	Budget	Achievement
1st Quarter	37,594.00	32,885.00
2nd Quarter	49,949.00	42,989.10
3rd Quarter	62,034.00	53,454.00
4th Quarter	51,544.00	71,792.90
Total	201,121.00	201,121.00
Year 2005	Budget	Achievement
1st Quarter	38,536.00	35,941.00
2nd Quarter	42,008.00	44,495.00
3rd Quarter	43,244.15	
4th Quarter	45,641.93	
Total	169,430.08	80,436.00
Grand Total	527,262.99 (55,883,000)	438,268.91

From the JICA Laos

List of Lao Counter-part

	Name	Position at NUOL	Position at IT Project
1	Prof. Dr.Somkot Mangnomek	Vice Minister of Education/President of NUOL	Ex - Project Director
2	Assoc.Prof. Dr.Saykhong Saynasine	Vice President	Project Director / IT Committee
3	Mr. Khamphoui Southisombath	Vice Dean	Project Manager / IT Committee
4	Mr. Seumsak Douangsyla	Lecturer	Project Coordinator / IT Committee
5	Mr. Khampha Sihanakhone	Deputy Head of Academic Affairs, FE	Head of Output-1 / IT Committee
6	Assoc.Prof. Sangpasong Phrakonekham	Head of Electrical Engineering Department	Head of Output-5 / IT Committee
7	Ms. Nouanchanh Panyanouvong	Deputy Head of Electronic Engineering Department	Head of Output-6 / IT Committee / Staff of Output-4
8	Assoc.Prof.Dr. Khamphone Nanthavong	Deputy Dean	IT Committee
9	Mr. Khamla Chanthavong	Head of Electronic Section	IT Committee / Staff of Output-6
10	Mr. Vixay Vanhkham	Head of Academic Affairs Division, FE	Project Coordinator / Head of Output-4 / IT Committee / Staff of Output-6
11	Mr. Tha Bounthan	Head of IT Section	Project Coordinator / IT Committee / Staff of Output-1
12	Mr. Seuak Souachaleune	Head of Academic Affairs Division, NUOL	IT Committee
13	Ms. Daoheuang Siboulboun	Lecturer	Secretary of IT Committee
14	Mr Phou-ngern Phommayaysi	Head of	Head of Output-2
15	Mr. Phimmasone Sisa-at	Lecturer	Head of Output-3 / Staff of Output-2
16	Dr. Soulyphan Kannitha	Deputy Head of R&D Division, FE	Head of Output-7
17	Ms. Ketsana Phanthadet	Lecturer	Staff of Output-1 / Output-5
18	Mr. Somphone Khanthavong	Head of Lao Japan Technical Training Center	Staff of Output-1 / Output-5
19	Mr. Donekeo Lakanchanh	Lecturer	Staff of Output-2
20	Mr. Keokanlaya Sihath	Lecturer	Staff of Output-2 / Output-6
21	Mr. Somsanouk Pathumvanh	Lecturer	Staff of Output-3
22	Mr. Khanthanou Louangxaysana	Lecturer	Staff of Output-3
23	Mr. Xaysamone Dittaphong	Lecturer	Staff of Output-3
24	Mr. Xaythavy Louangvilay	Lecturer	Staff of Output-3 / Assistant of Project Coordinator
25	Mr. Panya Chanthavong	Lecturer	Staff of Output-5
26	Ms. Douangsamone Phetsomphou	Lecturer	Staff of Output-6
27	Mr. Phonepaseuth Satahack	Head of Telecommunication Section	Staff of Output-7

2-6 Project Implementation Cost

Total Revenue and Expense of the IT Bridging Course as of Nov. 2005

Total Revenue in Year 2003-2004	Total	Total Expenditure
Registration Fee (Group A&B)	6,975,000	119,989,400
Tuition Fee (Group A&B)	87,672,000	
Miscellaneous incl. Project/Diploma fee (Group A&B)	16,770,000	
	111,417,000	
Total Revenue in Year 2004-2005	Total	119,989,400
Registration Fee (Group B)	1,350,000	
Tuition Fee (Group B)	11,308,000	
Miscellaneous incl. Project/Diploma fee (Group B)	-	
	12,658,000	
GRAND TOTAL REVENUE OF	124,075,000	119,989,400

*Total revenue 2004-2005 is prospected 168,726,000LAK by the Project termination

添付3: 成果達成状況 3-1 活動実績

Activities	Target		Schedule JFY 2005											
			4	5	6	7	8	9	10	11	12	1	2	3
1.1 To improve the IT program.	1. One curriculum of IT field is prepared and developed.	Planned Actual												
1.2 To improve and develop syllabi and curriculum manual for the IT program.		Planned Actual												
2.1 To survey and review the needs of facilities, tools and equipment.	2.1 Sets of network equipment are provided.	Planned Actual												
2.2 To procure facilities, tools and equipment.	2.2 Sets of IT education equipment are provided.	Planned Actual												
2.3 To distribute and keep record of facilities, tools and equipment.	2.3 Office equipment are provided.	Planned Actual												
3.1 To prepare and update list of facilities, tools and equipment.	3.1 A system for management of facilities, tools and equipment is improved.	Planned Actual												
3.2 To explore the current problems of management of facilities and equipments.	3.2 Two supervisors are trained for management of the system.	Planned Actual												
3.3 To determine the framework of the management.		Planned Actual												
3.4 To prepare and implement regulations for facilities and equipment management.		Planned Actual												
3.5 To train supervisors.		Planned Actual												
3.6 To monitor and evaluate the use of facilities and equipment.		Planned Actual												
3.7 To undertake maintenance of facilities and equipments.		Planned Actual												
4.1 To select current teaching staff for IT department.	4.1 Approximately 10 regular teaching staffs are trained for instructional quality improvement.	Planned Actual												
4.2 To select new teaching staff for IT department.	4.2 Approximately 5 new teaching staffs are trained before the beginning of their teaching profession.	Planned Actual												
4.3 To train current teaching staff for IT department.		Planned Actual												
4.4 To train new teaching staff for IT department.		Planned Actual												
5.1 To select participants for preparing IT glossary.	5.1 Ten (10) textbooks are prepared and developed.	Planned Actual												
5.2 To select committee of IT glossary.	5.2 Teaching manuals are developed for 20 given subjects.	Planned Actual												
5.3 To conduct workshop in preparing IT glossary.	5.3 One glossary of IT technical terms is prepared.	Planned Actual												
5.4 To prepare drafts of IT glossary.		Planned Actual												
5.5 To edit drafts of IT glossary.		Planned Actual												
5.6 To print IT glossary.		Planned Actual												
5.7 To select ten subjects for developing teaching materials/textbooks.		Planned Actual												
5.8 To select participants for developing teaching materials/textbooks.		Planned Actual												
5.9 To conduct workshop in preparing teaching materials/textbooks.		Planned Actual												
5.10 To prepare drafts of teaching materials/textbooks.		Planned Actual												
5.11 To edit drafts of teaching materials/textbooks.		Planned Actual												
5.12 To print teaching materials/textbooks.		Planned Actual												
6.1 To select students for IT program.	6. Approximately fifty graduated in IT field are produced by FEA.	Planned Actual												
6.2 To select and invite foreign and local lecturers for IT program.		Planned Actual												
6.3 To monitor registration, orientation and enrollment for IT students.		Planned Actual												
6.4 To monitor teaching and learning activities.		Planned Actual												
6.5 To follow-up learning outcomes of students.		Planned Actual												
6.6 To organize study trip for IT student to Thailand.		Planned Actual												
6.7 To organize student project exhibition and graduation ceremony.		Planned Actual												
6.8 To organize JCC meeting periodically (twice/year).		Planned Actual												
6.9 To organize study trip for IT student to Japan.		Planned Actual												
7.1 To train teaching staff of FEA on research methodology.	7. Approximately 3 simple research works are conducted per year.	Planned Actual												
7.2 To conduct simple researches by the international joint researchers.		Planned Actual												
7.3 To conduct seminars for dissemination of the research works.		Planned Actual												
7.4 To promote academic exchange with other universities (KMILT, universities in Japan, etc).		Planned Actual												
7.5 To promote international joint research activities in the field of IT and IT related fields.		Planned Actual												

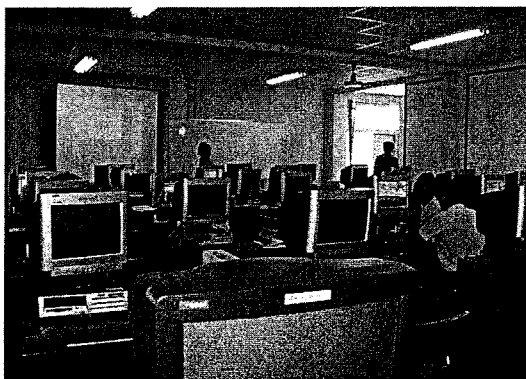
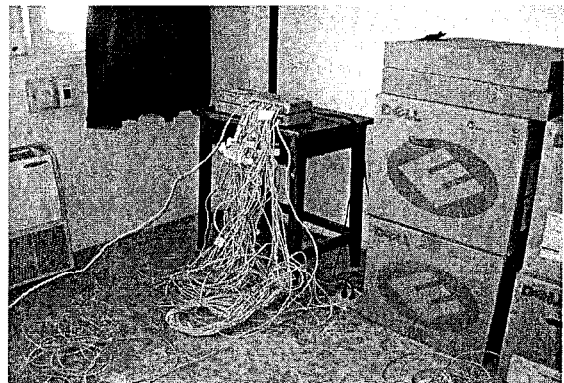
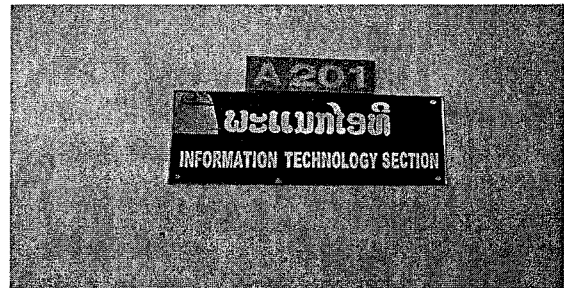
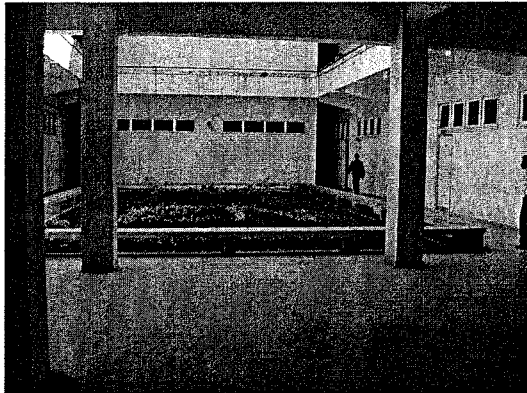
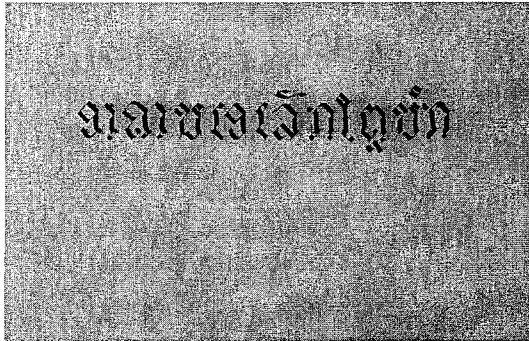
Curriculum of the IT course

添付3: 成果達成状況 3-2 ITブリッジコースカリキュラム

	Old Curriculum (IT Bridging 2-Year Course)	Content Modified Old Curriculum (IT Bridging 3-Year Course)	Name of Lecturer	Strengthening or New Subject	Teaching Schedule	Japanese Expert	Third Country Expert	Teaching Syllabi	Teaching Manuals	Lao Textbook	Tools, Facilities, Teaching Materials
1	1 Foundation English I	Foundation English I	Foreign Language Division (3 lecturers)		2/05 ~ 5/05			Done			
	2 General Mathematics	Mathematics for IT I	Mr. Seo Mouradok		2/05 ~ 5/05			Done			
	3 Internet and Web Technology	Internet and Web Technology	Mr. Phimmassone Sisa-at	Strengthening	10/05 ~ 1/06		Follow Up or KMITL (10/2005)	Done	On process (9/2005)	On process (12/2005)	Follow Up
	4 Intro. to Information Technology	Intro. to Information Technology	Mr. Opaseuth Siharath		2/05 ~ 5/05			Done	On process (9/2005)	On process (12/2005)	
	5 Computer Programming I	Computer Programming I	Ms. Nouanchanh Panyanouvong		2/05 ~ 5/05			Done			
2	6 Foundation English II	Foundation English II	Foreign Language Division (3 lecturers)		6/05 ~ 9/05			Done			
	7 Discrete Mathematics	Mathematics for IT II	Mr. Seo Mouradok		6/05 ~ 9/05			Done	On process (9/2005)		
	8 Intro. To Telecommunication	Data Communication I	Mr. Phonepaseth Satahach		6/05 ~ 9/05			Done	Done (3/2005)	Done (3/2005)	
	9 Digital Computer System	Digital Computer System	Ms. Nouanchanh Panyanouvong		6/05 ~ 9/05			Done	Done (1/2005)	Done (3/2005)	
	10 Computer Programming II	Computer Programming II	Mr. Tha Bountan		6/05 ~ 9/05			Done	On process (12/2005)	On process (12/2005)	
3	11 English for IT Profession I	English for IT Profession I	Mr. Xayachack		10/05 ~ 1/06			Done			
	12 Database System	Database System	Mr. Tha Bountan		10/05 ~ 1/06		KMITL (10/2005)	Done	On process (9/2005)	Done (3/2005)	
	13 Probability and Statistics	Statistics and Data Analysis	Mr. Seo Mouradok		10/05 ~ 1/06			Done	On process (9/2005)		
	14 Data Structure and Algorithms	System Administration I	Mr. Sengthasamy Chanthamenavong	New subject	Postpone		KMITL (10/2005)	Follow Up	Follow Up	Follow Up	Follow Up
	15 Intro to Datacommunication	Data Communication II	Ms. Douangsamone Phetsomphou	Strengthening	10/05 ~ 1/06			Done	Done (12/2004)		Follow Up
4	16 Business Administration	Business Administration	Mr. Akhaphone Siharath		3/06 ~ 7/06			Done			
	17 Computer Network	Network Technology and Internet	Mr. Saumsak Douangsyala	Strengthening	3/06 ~ 7/06			Done	On process (9/2005)	On process (12/2005)	Follow Up
	18 Info. Sys. Analysis and Design	Info. Sys. Development Life Cycle	Mr. Somphone Kanthavong	New subject	3/06 ~ 7/06			Done	On process (12/2005)	Done (3/2005)	Follow Up
	19 English for IT Profession II	System Administration II	Mr. Sengthasamy Chanthamenavong	New subject	3/06 ~ 7/06	Follow Up		Follow Up	Follow Up	Follow Up	Follow Up
	20 Free Electives I	Security in IT System	Mr. Phimmassone Sisa-at	New subject	3/06 ~ 7/06	Follow Up		Done	On process (9/2005)	Follow Up	Follow Up
5	21 Electives in Language I	Electives in Language			9/06 ~ 1/07			Follow Up			
	22 Project I	Project I		Strengthening	9/06 ~ 1/07			Follow Up			
	23 Electives in IT I	Electives in IT I		New subject	9/06 ~ 1/07				See Elective Subject in Info. Tech.		
	24 Electives in IT II	Electives in IT II		New subject	9/06 ~ 1/07						
	25 Electives in Humanity	Philosophy	Mr. Vanna Bounluelai		Done 2/05 ~ 5/05			Done			
6	26 Electives in Language II										
	27 Project II	Project II		Strengthening	3/07 ~ 7/07			Follow Up			Follow Up
	28 Electives in IT III	Electives in IT III		New subject	3/07 ~ 7/07				See Elective Subject in Info. Tech.		
	29 Electives in IT IV	Free Electives		New subject	3/07 ~ 7/07						
	30 Free Electives II										
Elective in Info. Tech.	1 Database Programming	Database Programming	Mr. Tha Bounthanh	New subject				Follow Up	Follow Up	Follow Up	Follow Up
	2 LAN Design	LAN Design	Mr. Somphone Kanthavong	New subject				Follow Up	Follow Up	Follow Up	Follow Up
	3 Wireless Information Network	Wireless Information Network	Mr. Boun-om Phimsipason	New subject		Follow Up		Done	Follow Up	Follow Up	Follow Up
	4 Web Design and Programming	Web Design and Programming	Mr. Sengthasamy Chanthamenavong	New subject				Follow Up	Follow Up	Follow Up	Follow Up
	5 Information Broadcasting System	Information Broadcasting System	Ms. Nouanchanh Panyanouvong	New subject				Follow Up	Follow Up	Follow Up	Follow Up
	6 Satellite Communication System	Satellite Communication System	Mr. Phonepaseth Satahach	Strengthening				Follow Up	On process (9/2005)	On process (12/2005)	
	7 Fiber Optics	Fiber Optics	Ms. Douangsamone Phetsomphou	Strengthening				Done	On process (9/2005)		
	8 E-Commerce	E-Commerce	Mr. Somsanok Pathounvanh	Strengthening				Done	Done (8/2004)	On process (12/2005)	
	9 Strategic Planning of IT	Strategic Planning of IT	Ms. Nouanchanh Panyanouvong	Strengthening				Follow Up	On process (9/2005)		
	10 Applied Computer (Robotics)	Applied Computer (Robotics)	Mr. Xaysamone Dithaphong	Strengthening		Follow Up		Follow Up	Follow Up		Follow Up
	11 Management Information System	Management Information System	Ms. Nouanchanh Panyanouvong	Strengthening				Done	Done (3/2005)		
	12 JAVA Programming	JAVA Programming	Mr. Phimmassone Sisa-at	Strengthening				Done	Done (8/2005)		
	13 Linux Programming	Linux Programming	Mr. Somsanok Pathounvanh	Strengthening				Done	On process (12/2005)		

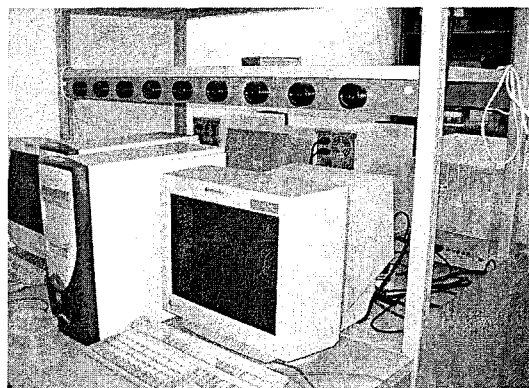
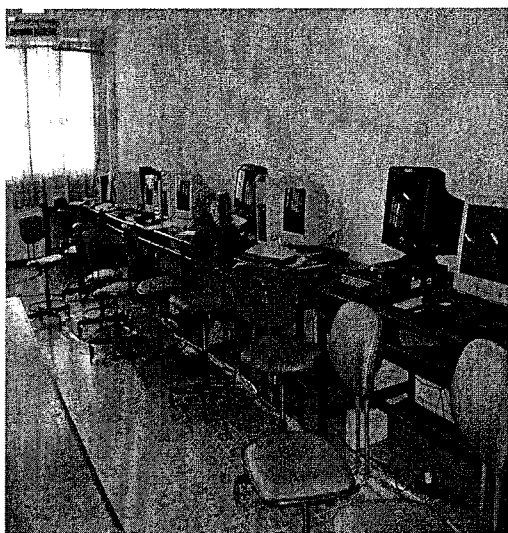
Equipments and Facilities observed in IT bridging course as of November 2005

From the observation of the lab and equipments, the status of operation and maintenance of the equipment seems to be good.

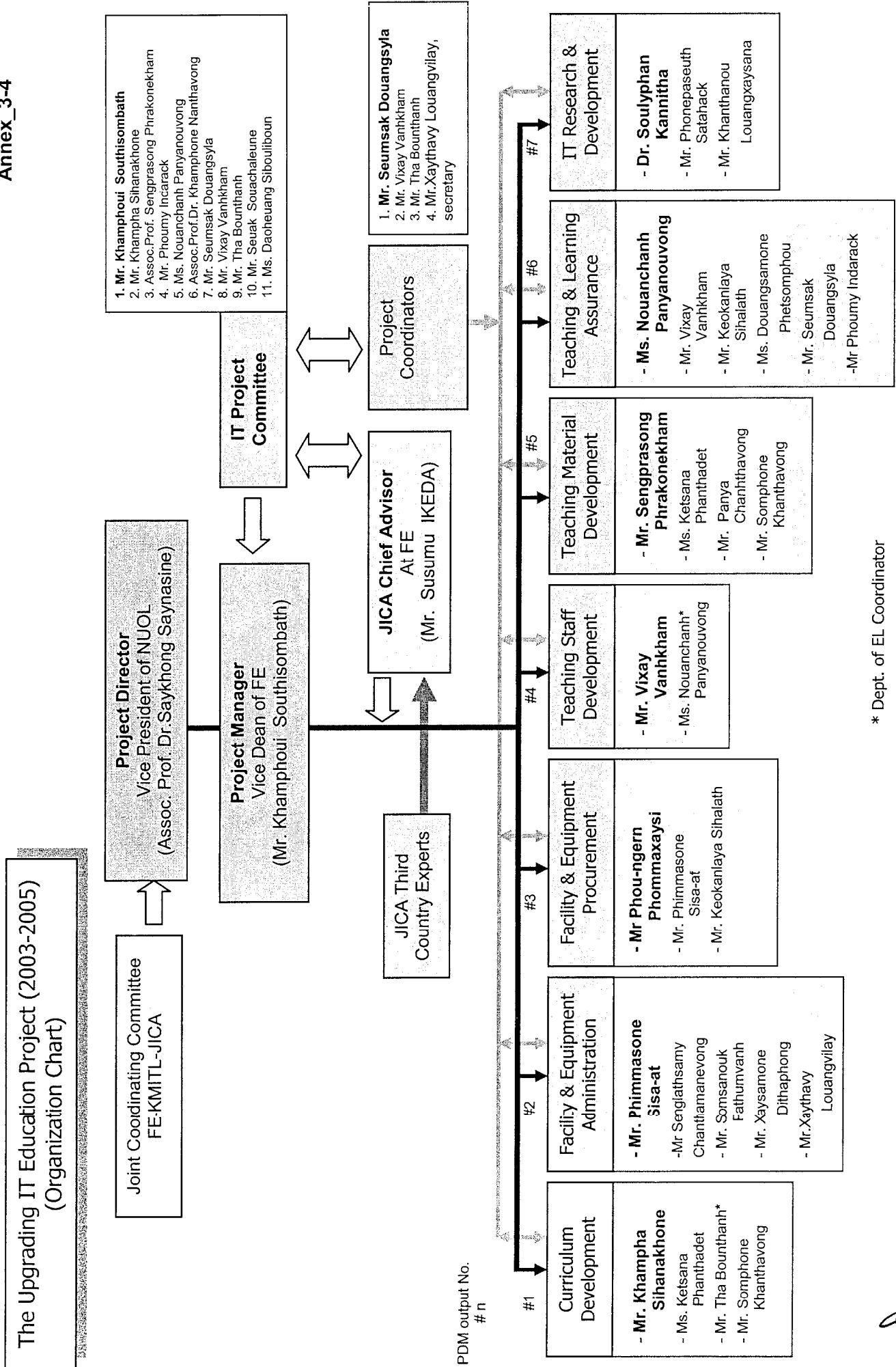


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Equipments and Facilities observed in IT bridging course as of November 2005



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List of Seminar and Workshop conducted by the Project 2003-2005

Seminar and Workshop JFY 2003

1	Seminar on SFS Curriculum	2003	April	9 April 2003
2	Seminar on Research Topics in IT	2003	April	25 April 2003
3	Workshop on Applied Computer 2003 (Robot)	2003	June	2 - 6 June 2005
4	Workshop on Curriculum Evaluation	2003	June	4 - 5 June 2005
5	Robot Competition	2003	August	1 August 2003
6	Workshop on Writing a Teaching Manual for IT Course	2003	August	18 - 22 August 2003
7	Research Methodology	2004	March	9 - 12 March 2004
8	Workshop on Applied Computer (Robot) at Luangprabang	2004	March	16 - 19 March 2004

Seminar and Workshop JFY 2004

1	Workshop on Applied Computer (Robot) at Savannakhet	2004	May	3 - 7 May 2004
2	Workshop on System Approach for Planning	2004	June	7 June 2004
3	Seminar on Research Trend and Topics in Engineering	2004	August	13 and 17 August 2004
4	Workshop on Teaching Methodology and Practice	2004	August	23 - 27 August 2004
5	Workshop on Applied Computer (Robot)	2004	September	13 - 17 September 2004
6	Robot Competition	2004	November	5 November 2004
7	Seminar on Development of IT industry	2004	November	16 November 2004
8	Seminar on Research Initiation & Development	2005	January	10 - 11 January 2005
9	Workshop on Managing and Maintaining a Window 2003 Server	2005	February	7 - 11 February 2005
10	Workshop on Fundamentals of Network Security	2005	February	14 - 18 February 2005
11	Workshop on Revise PDM Planning of IT Bridging Course	2005	February	28 February 2005
12	Workshop on Curriculum Evaluation	2005	March	1 - 4 March 2005
13	2nd Seminar on Information Technology	2005	March	10 March 2005
14	Workshop on Image Processing & Computer Vision	2005	March	16 - 22 March 2005
15	Workshop on Development of Teaching Mathematics for IT and Engineering	2005	March	21 - 25 March 2005

Seminar and Workshop JFY 2005

1	Seminar on Development of Higher Education Course in the IT Field and Its Related	2005	April	27-29 April 2005
2	Workshop on Applied Computer 2005 (Robot)	2005	May	3 - 6 May 2005
3	Workshop on Teaching Syllabus Writing	2005	May	31 May 2005
4	Workshop on Applied Computer 2005 (Robot)	2005	June	13 - 17 June 2005
5	Workshop on Follow-up Program of the Upgrading IT Education Project	2005	June	30 June 2005
6	Workshop on Grading and Making Transcript	2005	July	5 July 2005
7	Workshop on Applied Computer 2005 (Robot)	2005	August	8 - 12 August 2005
8	3rd Seminar on Information Technology	2005	August	11-12 August 2005
9	Seminar on Trend and Topics of Research Information Technology	2005	October	3 October 2005
10	Workshop on Maintaining a Web Base Server	2005	October	10 - 14 October 2004

Tele-lecturing from Japan through JICA-Net

	Title	Lecturer	Student	Date	Time (Lao)
1	E-Commerce	Prof. Tsuji Hidekazu		22-Nov-04	13:10-17:00
2	Sequential Control for DC Motor by Microcomputer	Prof. Noriyuki Komine		22-Nov-04	13:10-17:00
3	Network Management	Prof. Hiroaki Kikuchi		24-Nov-04	14:50-16:20
4	Lao-Thai-English Computer Dictionary	Prof. Moriyuki Matsuo		15-Dec-04	15:00-16:30
5	Student Registration System	Prof. Shigenori Tomiyama		15-Dec-04	16:30-18:30
6	E-Banking System and Lao Silk and Handicraft Shop	Prof. Tsuji Hidekazu	B4A, B4B	23-May-05	14:50-16:20
7	CD/DVD rental system and telephone service system for an Apartment	Prof. Moriyuki Matsuo	B3, B6	23-May-05	16:30-18:00
8	Campus Lan Design and Online Network Monitoring and Packet Capture Analysis	Prof. Hiroaki Kikuchi	B5A, B5B	24-May-05	13:10-14:40
9	GPS Mapping System and Vehicle Tracking System	Prof. Kazuhiko Hamamoto	B9A, B9B	24-May-05	14:50-16:20
10	Advertisement Board and Remote Vending Machine	Prof. Noriyuki Komine	B7, B10	24-May-05	16:30-18:00
11	Home Security System	Prof. Shozo Kondo	B8	26-May-05	13:10-14:40
12	Student Registration System and Student Grading System	Prof. Shigenori Tomiyama	B1A, B1B	26-May-05	14:50-16:20
13	Government and Enterprise Vehicle Database System	Prof. Toshio Iijima	B2	3-Jun-05	14:50-16:20
14	Fuel cell for computer and cellular phone	Prof. Toshio Iijima	B2	18-Nov-05	16:30-18:00
15	CD/DVD rental system and telephone service system as a Database Management System	Prof. Moriyuki Matsuo	B3, B6	19-Nov-05	14:50-16:20
16	Electronic Commerce: Marketing on the Internet	Prof. Tsuji Hidekazu	B4A, B4B	21-Nov-05	13:10-14:40
17	Hardware Environment for using Microcomputer	Prof. Noriyuki Komine	B7, B10	21-Nov-05	16:30-18:00
18	Detection of Moving Objects in an Image Sequence-Part 2	Prof. Shozo Kondo	B8	21-Nov-05	14:50-16:20
19	Spatiotemporal information processing and GPS application II	Prof. Kazuhiko Hamamoto	B9A, B9B	22-Nov-05	16:30-18:00
20	Relations between teacher and staff in Tokai University	Prof. Shigenori Tomiyama	B1A, B1B	24-Nov-05	16:30-18:00
21	Network Management	Prof. Hiroaki Kikuchi	B5A, B5B	30-Nov-05	14:50-16:20

Summary and Findings

Students' Survey for the Terminal Evaluation of IT Upgrading project
November, 2005

■ Methods

Questionnaire distributed in Lao Language

■ Target and Scope

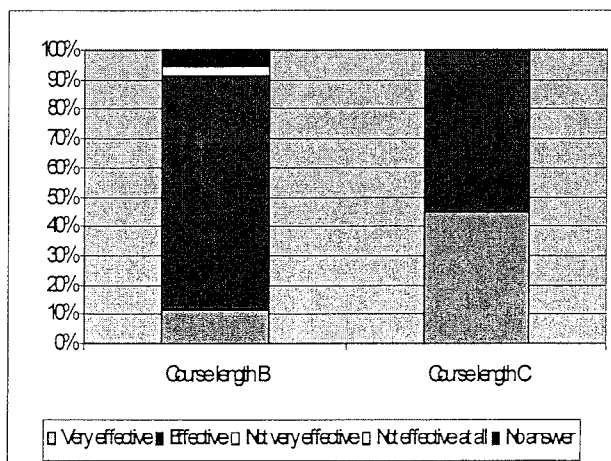
Collected 38 questionnaires from Group B, and 29 from Group C (Annex 1 Questionnaire)

■ Findings

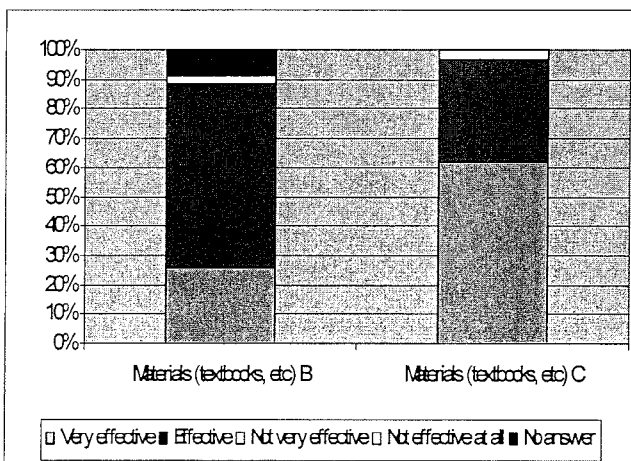
1. As for the effectiveness of the overall IT bridge course, more than 90% of both students express positive saying very effective or effective. For both groups, there are only 1 or 2 students who think it not effective. Specifically, Teaching by foreign experts is the highest for group B, meanwhile Materials is the top for group C. Two outstanding differences between both are about 1) course length and 2) Materials. Regarding the course length, Group B in 2 years shows their appreciation lower than group C in 3 years. For Materials prepared by the Project, Group C who well distributed materials produced by the Project shows higher than group B.

	Group B		Group C	
	Very Effective	Effective	Very Effective	Effective
Course length	11%	80%	45%	55%
Course subjects	34%	57%	48%	52%
The Project (incl. presentation)	17%	77%	41%	38%
Materials (textbooks, etc)	26%	63%	62%	34%
Other activities (e.g., Robot)	37%	49%	21%	31%
Facility & Equipments	46%	49%	41%	55%
Teaching by FE Lao-lecturers	23%	71%	14%	76%
Course administration	26%	69%	31%	62%
Teaching by KMITL lecturers	60%	34%	--	--
Teaching by Japanese professors	57%	34%	--	--
JICA-NET distance learning	23%	60%	--	--

1) Gap about the Course Length



2) Gap about the Materials



2. As for the relevance of Curriculum, there also seems to have gap between group B and C to the Questions 1) whether the current curriculum matches for the social needs for IT human resources in Lao and 2) whether IT knowledge and skill acquired at this curriculum are fully utilized at current job. For the 1) question, half of the group B did not answer, while the entire group C says yes. Yet, on the other hand, more than 80% of group B thinks the skills acquired in the Course are useful for their current job, while less than 70% of Group C says so.

Further investigation is needed for the reasons of the answers since this survey is just for quick grasping the overall impression of the students for the terminal evaluation. Yet, some comments might be hint for future activities.

Majority of the comments from group B is 3; such as 1) lack of time to catch up the subjects, 2) to have more practical, and 3) to concentrate for more important subjects. Meanwhile, the outstanding comments are mainly 3 from group C, namely, 1) to have a study trip, 2) to have an internship in IT enterprises, and 3) to need experts in some subjects.

From group B

- Should have more time for each subject so that participants understand more and can use those skills
- Some important subjects are not taught such as visual basic, programming, database
- Should have a field study in some agency that involved in IT
- Should be focused more practical
- Still Lack of the equipment
-

From group C

- Should have a field trip to some center that involved in IT system
- Should build website for project management, such as: electronic copy for students, information for student should be online
- Should be done through internet (E-learning)
- Lecturers should be expert so that we can learn the subject deeply
- Should have lecturer who had experience in specific subject such as: communication, GSM, MMS
- Need more seminar and invite foreign expert

Refer to Attached excel sheet for detail information.

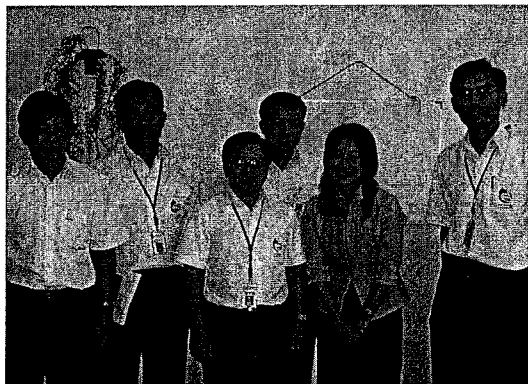
Current Situation of Graduates and students of IT bridging course
found in the Terminal Evaluation

[Case 1] Mr. A in group B

One student (Group B) reported that the organization he belongs to was not very supportive of him in joining an evening course due to his early start at the beginning of the Course. However, after he often applied at work new skills that he attained in the Course, the organization changed its attitude and came to appreciate his skills and the course. Now the organization asks him first about any IT-related problem such as repairing a machine and creating a database. He works on it and sends it to outside service if the problem is beyond his skills.

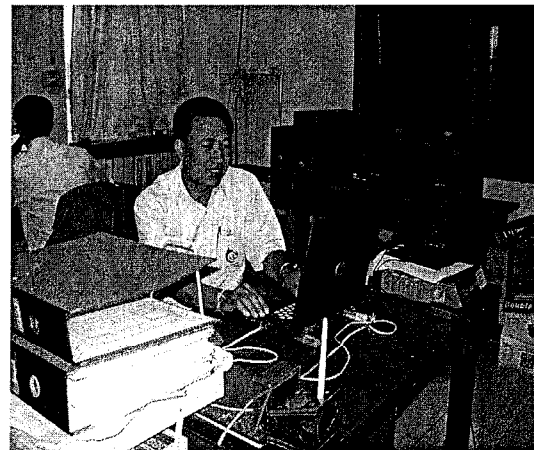
[Case 2] Mr. Opaseuth SIHARATH, Chief of ICT Section, Lao Telecommunications

Mr. Opaseuth is newly appointed to a Chief of ICT section that consists of 5-6 members in Lao Telecommunications due to his skills and knowledge of IT acquired in the Course. Mr. Vanphen SAYKONE, Deputy Director General, proudly appreciated his work saying "Mr. Opaseuth seems to become more confident with his job, some ideas related to ICT projects were originated from him after his graduation." He thinks to continue sending his staff member to the Course because the company still needs more IT personnel.



Seeing such utilization of the skills to the

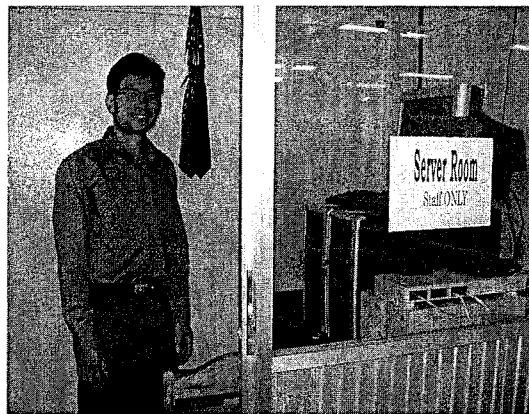
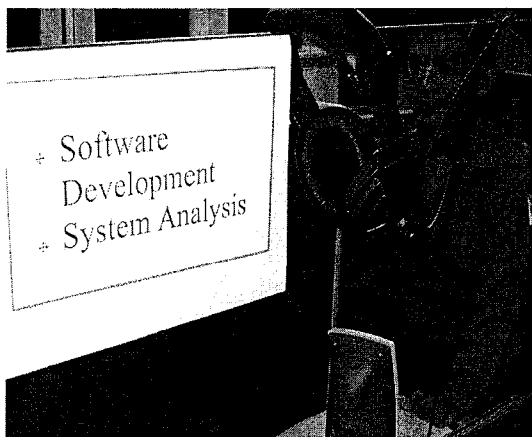
current work, LTC dispatched 6 staff member to the IT bridging course so far, reported Mr. Bounly AMNOYPHONE, Deputy Manager of Human Resources Dept.



Mr. Opaseuth is also teaching group B and C "Introduction of Information Technology" to soon after his graduation. He has hoped that he could utilize and transfer his academic knowledge acquired in the Course and actual skills used in daily work to his junior in the IT course. Another classmate of him in Group A also now utilizes his skills to produce the Website of LTC.

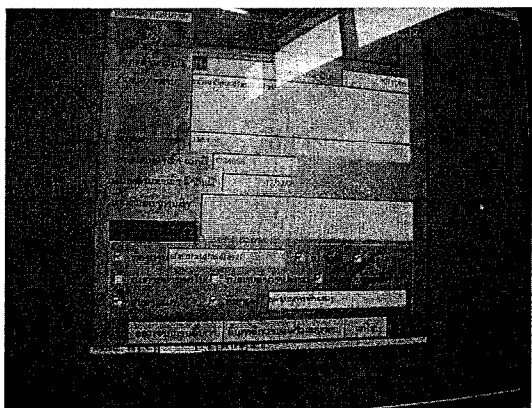
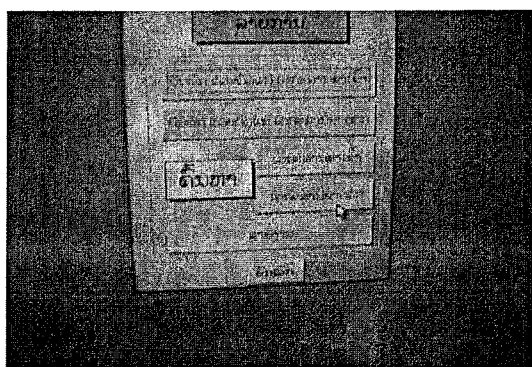
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[Case 2] Mr. Phayvanh Pathammavong, Ministry of Commerce



Mr Phayvahn has just been replaced to Commerce and Information Technology Division newly established a month ago. His new tasks are broad, almost all related to IT as an IT manager. Concretely, Mr. Phayvanh is now developing the software for managing the application of imports and exports.

For this position, he is specifically required to 1) maintenance skills of computers, 2) developing skills of network, 3) developing skills of software, and 4) developing the website. In the ministry, only 3 personnel including him are dealing with all IT issues, and Mr. Phayvanh is the only person who acquired the official degree of IT. Based on the knowledge, he become able to do self-study with textbooks and manuals for more advanced.



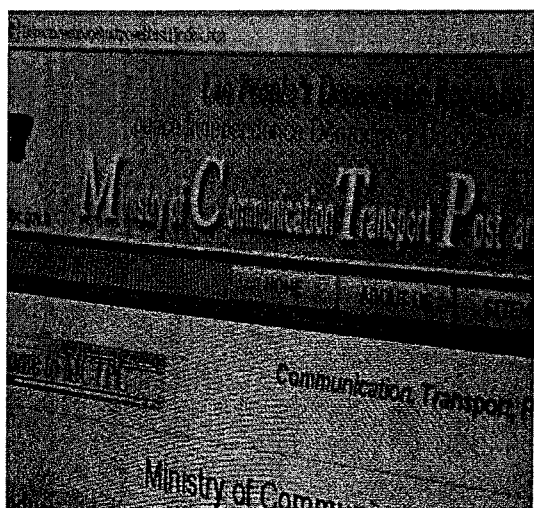
(He is now using the Access by his self-study)

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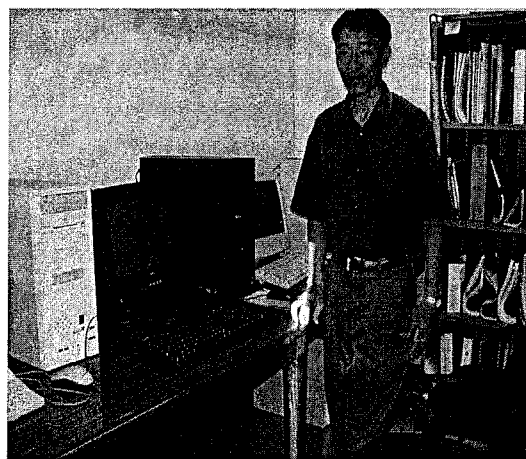
[Case 3] Mr. Sengchanh HOMSYLAHACK, MCTPC



Mr. Sengchanh was recently assigned (promoted) as the head of IT section in the Ministry. In this section, he is expected to manage anything related to 1) Networking, 2) Connection between the Headquarters and its offices in province level, 3) Database administration, 4) updating all information in the Ministry. As for Database, specifically he will deal with 1) bidding information, 2) Automobile numbering information, and 3) Driver's license numbering information, which were controlled in paper one by one so far. He is now creating the website of MCTPC by himself. (Pix Below)



Mr. Sengchanh was the only personnel who acquired the official degree of IT in the Ministry. Before joining the IT course, his task were nothing to do with IT, but after graduation he enjoyed himself in IT business. For his current job, such subjects as Internet web technology, Digital Computer System, Database System, Management Information System, and Linux Programming are well utilized. Mr. Sengchanh realized that he now easily apply his knowledge acquired in the course to applied level by self-study with published textbooks.



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上位目標	プロジェクト要約	指標 (オリジナル)	新指標（案）と説明	指標データ入手段 (オリジナル)	指標データ入手段 (新)
1. 工学部が情報化人材を有効に輩出し、政府や工業部門の人材ニーズを補充することが出来るようになる。	プロジェクト目標	＜指標の書き換え・追加＞ →プロジェクト修了後から中長期的には社会ニーズとの整合を示すためにIT関連への就職状況などを測る指標が望ましい。そこで、「卒業生の進路内容」「ITスキルの活用度」「工業セクターなど外部からの評価」を補足	＜指標の書き換え・追加＞ 1. 2010年までにおよそ300人のIT人材を輩出する。 2. ＜進路・活用度＞工学部IT学士号卒業生の多くがラオス国内の就職先（民間・政府）で修得したITスキルを活用している。 3. ＜外部評価＞ラオス国の工業セクターや関連政府機関の多くが当カリキュラムおよび輩出された人材スキルを高く評価している。	＜指標データ入手段の追加＞ 国家統計 調査レポート 追加 追加	そのまま 調査会社またはプロジェクト内部調査レポート 企業アンケート／卒業生アンケート
2. 工学部がIT分野の学生課程コースを運営できるようにする。	コース全体	＜指標の書き換え・追加＞ →左記のプロジェクト目標と同義になっている。本来は「ラオス工学部のみで運営出来ている」状態を1）「工学部講師の能力」、2）「工学部の学部およびITブリッジングコース運営能力」にプレイングダウン。「育成された講師数」を客観的な指標として示す。	＜書き換え＞2010年までにおよそ300人のIT人材を輩出する。 ＜書き換え・量＞少なくとも入学者の80%が毎年卒業できる。 ＜量＞プロジェクトを通じて育成された学生課程保有の講師が100人に多く在籍して指導にあたっている。 ＜質＞受講生・卒業生の大多数がコース内容を高く評価している。	＜指標データ入手段の書き換え・追加＞ ラオス国立立大学年次報告書 工学部年次報告書 追加 追加	そのまま そのまま 事務局体制組織図、スタッフ名簿など 受講生・卒業生アンケート
3. IT分野の学生課程コースが準備され、社会のニーズに合致するように開発される。	カリキュラム	＜指標の書き換え・追加＞ →成果1は活動1と同義。本来は「コースの準備・開発」の達成した状態を示すことが望ましい。「学生」「カリキュラム内容」と「カリキュラムのチェック体制」「組織運営体制の有無」にプレイングダウン	＜書き換え・カリキュラム＞IT分野のカリキュラムが準備、承認され、導入される。 2. オリジナルカリキュラムの改訂版が推薦され、導入される 3. ＜カリキュラム＞ラオスのIT分野の社会ニーズが定期的に把握・分析され、カリキュラムが見直されている。 4. ＜カリキュラム＞受講生・卒業生の大多数が開発・導入されたカリキュラム内容を高く評価している。	＜指標データ入手段の書き換え・追加＞ 教育学省報告書 実際に承認されたカリキュラム ITカリキュラム評価報告書 ラオス国立立大学年次報告書	そのまま ＜書き換え＞カリキュラム認定書類など ←入手可能？ そのまま
4. 電子工学科の設備、資機材の管理能力が向上する。	設備・機材管理	＜指標の書き換え・追加＞ →成果2と指標1が同義。本来は「管理システム」が向上した状態を示すことが望ましい。「管理システム」を「管理者」「管理マニュアル」「設備リスト」にプレイングダウンし、補足	＜書き換え＞設備や資機材の不具合（紛失・故障）などの発生防止に管理システムが役立っている 2. 当該システムを管理するための2名の監督者が訓練される。 3. 設備管理フレームワーク（ルール、機材リスト、活用モニター記録など）が準備され、活用されている。	＜指標データ入手段の書き換え・追加＞ 工学部規則および所見 工学部による指名 追加	＜書き換え＞機材管理記録、使用記録等 ＜書き換え＞管理者・担当者の訓練記録など 管理ルール、機材リスト、モニター記録など
5. ITプログラムのための設備や資機材が十分に提供される。	調達管理	＜指標の書き換え・追加＞ →本来、資材機材が「提供される」ことは「成果」ではなく「投入」としては扱うことが困難である。しかし、成果3に関する「活動」を精査すると実際には調達能力の向上を目指す内容となっていることがわかる。よって、成果3は「ITプログラムのための調達が適切に実施されている」に、指標は「機材調達台帳（記録）が作成されている」機材リストが作成されている」へ、活動成果が適切に判断されるように変更する。	1. ネットワーク設備の1セットが提供される。 2. IT教材1セットが提供される。 3. オフィス教材が1セット提供される。	追加 追加	機材管理記録、使用記録等 調達管理台帳
6. IT科目に関するラオ語の指導マニュアルや教科書、および語句集が工学部スタッフにより用意され、開発される。	講師育成	＜指標の書き換え・追加＞ →開発される教材などの量の面だけの評価指標なので、質的な面を追加することが望ましい。	1. 約10名の常勤講師が指導能力向上のためのコースで訓練を受けている。 2. 約5名の新しい講師が業務開始前に訓練を受けている。 3. 約10名の講師が改訂版カリキュラムとプロジェクト管理のために訓練を受けている。 4. 質＞既存および新任講師を訓練する体制が準備されている	＜指標データ入手段の書き換え・追加＞ 工学部による指名 工学部による指名 追加	＜書き換え＞講師の研修受講記録 ＜書き換え＞講師の研修受講記録 講師訓練ルール、講師訓練マニュアルなど
7. 工学部講師のIT分野とIT分野関連の調査研究能力が強化される。	教材開発	＜指標の書き換え・追加＞ →10冊の教科書が準備、開発される。 2. 指導マニュアルが規定の20科目分開発される。 3. IT技術用語の語句集が1つ準備される。 4. 追加5科目に関する指導マニュアルと教科書が開発される。 5. 追加5科目に関する指導マニュアルと教科書が開発される。 6. 追加5科目に関する指導マニュアルと教科書が開発される。 7. 追加5科目に関する指導マニュアルと教科書が開発される。 8. 追加5科目に関する指導マニュアルと教科書が開発される。 9. 追加5科目に関する指導マニュアルと教科書が開発される。 10. 追加5科目に関する指導マニュアルと教科書が開発される。	1. 約10名の常勤講師が指導能力向上のためのコースで訓練を受けている。 2. 約5名の新しい講師が業務開始前に訓練を受けている。 3. 約10名の講師が改訂版カリキュラムとプロジェクト管理のために訓練を受けている。 4. 質＞既存および新任講師を訓練する体制が準備されている	＜指標データ入手段の書き換え・追加＞ 教科書リスト 指導マニュアルリスト IT語句集 追加 追加	そのまま そのまま そのまま 受講生・卒業生アンケート 教材改訂担当者へのアンケート
8. 工学部講師のIT分野とIT分野関連の調査研究能力が強化される。	学事運営体制	＜指標の書き換え・追加＞ →調査研究数などの量的側面のみでの評価指標なので、質的な面を追加	1. 約10名の常勤講師が指導能力向上のためのコースで訓練を受けている。 2. 約5名の新しい講師が業務開始前に訓練を受けている。 3. 約10名の講師が改訂版カリキュラムとプロジェクト管理のために訓練を受けている。 4. 質＞既存および新任講師を訓練する体制が準備されている	＜指標データ入手段の書き換え・追加＞ 工学部卒業報告書 追加 追加	そのまま プロジェクト記録など 受講生・卒業生アンケート
9. 工学部講師のIT分野とIT分野関連の調査研究能力が強化される。	調査研究	＜指標の書き換え・追加＞ →調査研究数などの量的側面のみでの評価指標なので、質的な面を追加	1. 約10名の常勤講師が指導能力向上のためのコースで訓練を受けている。 2. 約5名の新しい講師が業務開始前に訓練を受けている。 3. 約10名の講師が改訂版カリキュラムとプロジェクト管理のために訓練を受けている。 4. 質＞既存および新任講師を訓練する体制が準備されている	＜指標データ入手段の書き換え・追加＞ 工学部卒業報告書 追加 追加	そのまま ＜書き換え＞グループによる調査研究活動の実施状況を確認するために「グループ」「活動報告書」などが望ましい。また、行事・活動の実施状況を確認するためには、「実施された活動リスト」などが望ましい。 発行された調査報告書 会報やジャーナル、会議のト、出版リストなど あるいは出版される 実施された活動リスト

注　＜そのまま＞：従来のPIMから文言を変えていないことを示す。＜書き換え＞：従来のPIMから文言を変えたことを示す。＜量＞：量的な側面を測る指標、など。＜質＞：質的な側面を測る指標、など。