

第II部 付 属 資 料

1. ミニッツ

2. リアド技術短期大学電子工学科カリキュラム

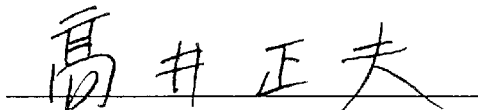
MINUTES OF THE MEETING
BETWEEN THE JAPANESE CONSULTATION TEAM
AND THE AUTHORITIES CONCERNED OF THE GOVERNMENT
OF THE KINGDOM OF SAUDI ARABIA
ON THE TECHNICAL COOPERATION
FOR THE PROJECT ON IMPROVEMENT OF THE TECHNICAL
EDUCATION OF ELECTRONICS
IN THE COLLEGE OF TECHNOLOGY IN RIYADH

The Japanese Consultation Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Masao Takai, visited the Kingdom of Saudi Arabia to promote smooth and thorough implementation of the Project on Improvement of the Technical Education of Electronics in the College of Technology in Riyadh (hereinafter referred to as "the Project").

During its stay in the Kingdom of Saudi Arabia, the Team exchanged views and had a series of discussions with the Saudi Arabian authorities concerned with respect to implementation and progress of the Technical Cooperation Programs for the Project.

As a result of the discussions, both sides made the Minutes of Meeting attached hereto.

Riyadh, April 18, 1999



Masao Takai

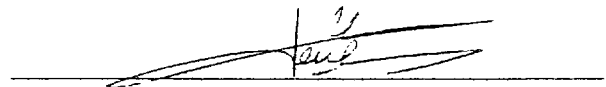
Leader

Japanese Consultation Team

Japan International Cooperation

Agency

Japan



Saeed T. Mallah

General Supervisor for Colleges of Technology
and Chairman of Academic Council

General Organization for Technical
Education and Vocational Training
The Kingdom of Saudi Arabia

THE ATTACHED DOCUMENT

The Team and the Saudi Arabian side evaluated at an intermediary stage of the Project the progress in accordance with the Record of Discussion (hereinafter referred to as "the R/D") and the Minutes of Meeting (hereinafter referred to as "the M/M") signed between the Japanese Implementation Study Team and the authorities concerned of the Government of the Kingdom of Saudi Arabia on March 5th, 1997 .

Both sides confirmed that the Project, in general, has been successfully implemented during the past two years period of the cooperation term at the Electronics Department of the College of Technology in Riyadh.

I. ACTIVITIES OF THE PROJECT IN JAPANESE FISCAL YEAR 1997 and 1998

1. Activities

The Team and the Saudi Arabian side reviewed the activities of the Project in Japanese Fiscal Year (hereinafter referred to as "JFY") 1997 and 1998 in accordance with the R/D and M/M.

The Team and the Saudi Arabian side confirmed the activities of the Project as shown in ANNEX I-1, I-2 including the Short-Course and the Seminar, which were successfully implemented in JFY1998.

2. Input by Japanese side

(1) Dispatch of Japanese experts

In accordance with the R/D, Japanese side dispatched four (4) long-term experts and twenty five (25) short-term experts in JFY 1997 and 1998 as listed in ANNEX II .

(2) Counterpart training in Japan

The Japanese side received eleven (11) Saudi Arabian counterparts concerned with the Project for technical training in Japan in JFY1997 and 1998. Details of their names and training periods are as listed in ANNEX III .

(3) Provision of Machinery and Equipment

The Japanese side provided Machinery and Equipment (hereinafter referred to as "the Equipment") in JFY1997 and 1998, as shown in ANNEX IV.

3. Input by Saudi Arabian side

(1) Total amount of the expenditure for the Project in 1997 and 1998

In spite of the requests by the Japanese side, Saudi Arabian side could clarify neither the expenditure for the Project and the Electronics Department nor the equipment prepared by the Saudi Arabian side in 1997 and 1998. Saudi Arabian side explained that the precise data was not compiled yet for the time being, but it is now under examination.

Japanese side requested to make them clear as soon as possible.

(2) Assignment of Counterpart and Administration Personnel in 1997 and 1998.

The Saudi Arabian side has assigned Counterpart Personnel as shown in ANNEX V in accordance with the R/D, and nominated a teacher out of them as a coordinator of the Project on the Saudi Arabian side since 1998.

(3) Provision of Land, Building and Facilities

In general, necessary Land, Building and Facilities for the implementation of the Project listed in the R/D have been provided by the Saudi Arabian side.

II. PLAN OF OPERATION OF THE PROJECT IN JFY 1999 and 2000

1. Activities

The Team and the Saudi Arabian side agreed on the Plan of Activities in JFY 1999 and 2000 as shown in ANNEX VI, and the Tentative Schedule of Implementation of the Project in JFY 1999 as shown in ANNEX VII. On the basis of both Annexes, the Plan of Operation is to be made by the end of May 1999.

2. Input by Japanese side

(1) Dispatch of Japanese experts

1) Long-term experts

The Japanese side has dispatched four (4) long-term experts for the whole period of the Project.

2) Short-term experts

The Japanese side will dispatch fourteen (14) short-term experts in JFY 1999 in the following fields;

- a. Electronics (Common)
 - b. Industrial Electronics / Control Technology
 - c. Computer Technology
 - d. Communication Technology
 - e. Medical Electronics
 - f. Other fields mutually agreed upon
- (Short-Course experts and Seminar experts shall be included)

The Saudi Arabian side proposed to the Japanese side that short-term experts hold a seminar, Short-Course, workshop, other special lectures, etc. during their stay in Saudi Arabia, and convey an information on topics of new advanced technology. The following themes were proposed by Saudi Arabian side:

- a. IEC : Programmable Logic Control, MATLAB, Power Electronics, Microcomputer Applications, etc.
- b. CT : Advanced Computer Programming, Information system Analysis and Design,



Introduction to Computer Networks, Microcomputer Lab., Network Operating System, etc.

- c. Com: Data Communication and Network, Introduction to Microwave, Basic Telephony and Teletraffics, Introduction to Acoustic and Video Engineering, etc.

The Saudi Arabian side requested the increase in number of short-term experts. The Team will carry the request back to Japan.

(2) Counterpart training in Japan

The Japanese side will receive four (4) Saudi Arabian counterparts concerned with the Project in the following fields for technical training in Japan in JFY 1999, as shown in ANNEX VII. In this connection, participation of counterparts in JICA's Group Training Program is to be examined within a framework of Project's scheme.

- 1) Two (2) College and Department Management
- 2) One (1) Computer Technology
- 3) One (1) Common Subject

The Saudi Arabian side requested the increase in number of counterparts who participate in the training program in Japan. The Team will carry the request back to Japan.

And both sides agreed that the contents of Training Program are basically to be formulated according to technical needs in Saudi Arabia.

(3) Provision of the Equipment

Both sides discussed concept of providing the Equipment for the Project and confirmed that ① basically the equipments necessary for the implementation of educational activities in the College, is provided by the Saudi Arabian side, ② the Japanese side provides the Equipment which is used by the Japanese experts for the transfer of technology and improvement educational activities, ③ contents, specifications and quantity of the above-mentioned Equipment will be decided through mutual consultations within the allocated budget of the JFY.

The final plan of the Equipment necessary for effective and efficient implementation of the Project which will be provided by Japanese side in JFY 1999 was duly discussed by both sides and submitted to JICA Head Quarter in March 1999. In this connection, the Team requested Saudi Arabian side to make and submit ① the list of equipments which was to the Electronics Department by Saudi Arabian side in 1998 and ② the list of equipments which will be prepared by Saudi Arabian side to the Department in 1999. Also the Team advised that the completion of these two lists by the end of May is necessary for making a more detailed plan of technology transfer. Also both sides agreed that after the completion of these lists, A-4 Form will be submitted to JICA.

The requested Equipment for JFY 1999 is as follows.

- a. FFT. Analyzer (Fast Fourier Transform) 2
- b. Optical Spectrum Analyzer 2

c. Video Camera Experimental Kit	3
d. Computer Peripherals & Troubleshooting Kit	7
e. Power Electronics Applications	5
f. MATLAB	1
g. Transducer Kits	5
h. Digitizing Oscilloscopes(Strage Oscilloscope)	7

3. Input by Saudi Arabian side

(1) Budget allocation for the Project in 1999.

The Team asked the Saudi Arabian side about the amount of the budget for the implementation of the Project in JFY 1999 . In reply to this question , the Saudi Arabian side explained that because differences of the budgetary system between Japan and Saudi Arabia , it is hard to show the exact amount of the budget of the Electronics Department. Though the Japanese side understood this point, they requested them to show approximately its amount. The Saudi Arabian side understood the Japanese side's request.

III. GENERAL ISSUES

both sides discussed the following issues.

1. Preparation of Plan of Operation

The Japanese side and the Saudi Arabian side confirmed that the Japanese experts and the Saudi Arabian Counterparts in the College of Technology in Riyadh will prepare the Plan of Operation in JFY 1999 and 2000 in accordance with the activities of PDM which was agreed in R/D conclusion, and also confirmed that the Plan of Operation is to be submitted to GOTEVOT and JICA Head Quarter within two (2) months. This Plan of Operation will be the cooperation plan for the next two (2) years, and this is to be an indicator of the final evaluation of the Project, expected to be conducted at the end of 2000.

2. Revision of Curricula and Syllabi

Mentioned in the master plan of R/D, the purpose of this cooperation is to support the improvement of Curricula, Syllabi, and other teaching materials of each course of the Electronics Department. For the implementation of the adequate cooperation, the Team requested that the Saudi Arabian side should provide the Japanese side rapidly its policy and information for the revision of Curricula and Syllabi related to the Project, and may ask for advice to the Japanese side. The Saudi Arabian side agreed to the Team's request.

3. Clarification of Terms of Reference of Short-Term Experts and Contents of Training

To dispatch short-term experts and implement counterpart training in Japan more effectively, the Japanese side and the Saudi Arabian side confirmed that they discuss the Clarification of Terms of Reference of short-term experts, contents of Training, and the

schedule of these inputs in advance in the Steering Committee or the Sub-Committees. Both sides also confirmed that it is necessary to exchange information about the result of discussion to the Supporting Committee in Japan immediately after the Committees.

4. Clarification of Counterpart

For the effective activities of long-term and short-term experts, and producing concrete outputs of the cooperation, the Team requested that the Saudi Arabian side should nominate a certain qualified person who can communicate with long-term experts and short-term experts in the Counterparts at any time, who should receive the technical advice directly. The Saudi Arabian side agreed the Team's request.

5. Effective Provision of Equipments

The Saudi Arabian side requested that the Japanese side should take the necessary step to take adequately Saudi Arabian side's knowledge and know-how into consideration in the stage of selection, provision, and maintenance of equipment which will be provided by JICA in Saudi Arabia. The Team agreed on the request .

6. The Steering Committee and the Sub-Committees

Both sides agreed that the Steering Committee and the Sub-Committees established in May 1998 under the Joint Coordinating Committee for smooth and effective implementation of the Project are to be held periodically from now on also.

7. Curriculum contents and term of schooling

It was suggested by the Japanese side that the present amount of educational contents (contents of courses, number of subjects and credit hours) is too much to complete in the course of five semesters (two years and half) compared with that of National Colleges of Technology in Japan which having been successfully and well-balanced managed . It is advisable to reduce the contents and /or to extend the educational term. The educational contents should be reduced to really necessary matters.

8. Preparation of Guide-book and Text-book

It was suggested by both sides to prepare guide-books for students on experiments and practical work in each laboratory course, and to take compiling new text-books for the education of colleges of technology (assistant engineer level) into consideration for further feasible study.



ANNEX I -1

Project Activities in JFY 1997

Course	Subject	Activities	Current Situation
Industrial Electronics/Control	PLC	To confirm the contents of the lecture and experiments and to propose equipment needed for the implementation	Contents of the lecture are satisfied Contents of the experiments are satisfied, but equipment(applications & additional sets(5~9sets)) are needed
	Transducers	To confirm the contents of experiments and equipment needed for the implementation	Contents of the lecture and experiment are satisfied Need of experimental equipment(5sets) are recognized
	Control System I, II	To confirm the contents of the lecture and experiments and to propose equipment needed for the implementation	Contents of the lectures are satisfactory Contents of the experiment of Control II are satisfactory Need the Mat Lab soft about Control I are recognized Further confirmation of experiment contents and equipments of Control I is needed
	Microprocessor Applications	To introduce a new training board and explain how to use crossassembler	How to use crossassembler are understood Waiting for new boards to be delivered
Computer	Microprocessor Lab	To suggest the replacement of CPU and training boards	Opinions of both sides on CPU are not in accord
	Data Communications	To suggest reexamine of syllabi, and propose example of lectures and experiments	Syllabi of subject are in the process of revision according to the suggestion
	Computer Networks	To propose the contents of lectures and experiments, and "a small scale computer network" needed for the implementation	Syllabi of subject are in the process of revision according to the suggestion
Communication	Communication Laboratory	To advise the contents of the experiments based on the present facilities and equipment To propose experiments of Radar measurement, Transmission line, Microwave devices and Telephone system	Each experiment is connected with related subject as the result of improvement. Need more discussions and advice concerning Microwaves and Telephony syllabi and experiments An anechoic chamber are needed for many experiments of Microwaves
	Communication Electronics	To suggest the experiments of analog/digital modulation and demodulation	Several experiments are improved, but more discussions are needed on experiments in Communication Electronics
	Data Communication & Networks	To confirm the contents of the lecture and experiments of LAN technology To plan further technical transfer for LAN technology	More discussions are needed Advice and discussion are needed about how to utilize LAN equipment
Common	Logic Circuits I, II	To explain the objective of the Logic Circuit education and how to establish the teaching methodology To explain how to use the application of new training boards (flip-flop, counter, register, etc.)	More discussions are needed about detail of Logic Circuits I, II
	Electronic Circuits	To reform the contents of laboratory work To plan further technical transfer	More discussions are needed about detail of Electronic Circuits

Project Activities in JFY 1998

Course	Subject	Activities	Current Situation
Industrial Electronics/control (IEC)	PLC	To confirm the setup of the equipment and starting experiments.	Need To confirm and discuss the experiments.
	Transducers & Process Control Lab.	To visit the lecture room and the laboratories and to advise a management system of laboratories.	Management system of laboratories is not clear.
	Power Electronics Applications	To confirm the contents of the lecture and experiments. To suggest to have new equipment on applications.	Need more discussions and advice on concerning contents of lecture and experiments.
	Microprocessor Applications	To test microprocessor main boards and accessories. To explain how to use interrupt board. To offer the revised text books(vol.1 & vol.2) on the experiments.	Experiments starts using these new boards. Advice and discussions are needed to design and make PIO board.
	MATLAB	To offer a comparison table on Student Edition with Standard Edition.	Need advice and discussions concerning how to use MATLAB.
Computer (CT)	Microcomputer Lab	To advise the contents of experiments based on the existing equipment.	The contents of the experiment are revised by the mutual discussions.
	Computer Servicing & Trouble shooting	To confirm the contents of the experiments and equipment are needed to carry out the lab.	Course contents are progressing, it required to be replaced and expanding to their peripherals.
	Data Communication	To discussed the contents of this subject and demonstrated one example of the experiment.	Preparation for the lab is in process.
Communication (COM)	Basic Telephony System	To confirm the preparation & contents of Lab.	Preparation is in process. Contents of the experiments are suitable according to the discussion.
	Introduction to Microwaves	To advise the measurement of basic characteristic.	Contents of the subject are in the process of revision.
	Communication Lab	To explain the contents of experiments based on the existing facilities.	Implementation of the lab will be carry out the existing facility according to the suggestion.
	Data Communication	To explain the utilities of the equipment	Equipment are connected as a system and some of the system are prepared for carried out the lab.
Common (CMN)	Electronics I , II	To propose a revised curriculum on the lecture. To suggest significance of basic concepts.	Need to offer some audio-visual materials.
	Electronic circuit	To advise the contents of experiments. To train C/P in the experiments of electronic circuits.	The training in the experiments is not finished.
	Logic circuit I , II	To advise the lecture on flip-flop. To explain the boards for the experiments.	Need more discussions and to demonstrate experiments using the boards.
	Electronics workshop	To explain the content of basic experiments on this subject of a Japanese Technical College.	Need to follow up the workshop.
Others	Short course	Short course on Medical Electronics 4 days course was implemented.	
	Seminar	Seminar on Electronics Technology in Saudi Arabia & Japan was implemented.	

ANNEX II

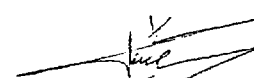
Dispatch of Japanese Experts

1) Long-term Experts

a)Mr. Kiyoshi Yamamoto	Chief Advisor	(December 1997 ~ December 1999)
b)Mr. Hiroshi Okuma	Coordinator	(April 1997 ~ April 2000)
c)Mr. Goro Kumon	Expert of Electronics	(April 1997 ~ April 2000)
d)Mr. Kazuo Tanno	Expert of Electronics	(May 1998 ~ May 2000)

2) Short-term experts

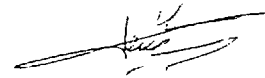
a)Mr.Kiyoshi Yamamoto	College Management and Instruction	(September 1997)
b)Dr.Tsutomu Wada	Electronics	(")
c)Dr.Junji Arai	Industrial Electronics / Control	(")
d)Dr.Jiro Shimonishi	Industrial Electronics / Control	(")
e)Dr.Masazumi Kumagai	Computer Technology	(")
f)Dr.Yasushi Kato	Computer Technology	(")
g)Dr.Yukitoshi Tsunoda	Communication Technology	(")
h)Dr.Shigeo Ohnuki	Communication Technology	(")
i)Dr.Jiro Shimonishi	Industrial Electronics / Control	(December 1997)
j)Dr.Masazumi Kumagai	Computer Technology	(")
k)Dr.Yasushi Kato	Computer Technology	(")
l)Dr.Shigeo Ohnuki	Communication Technology	(")
m)Dr. Jiro Shimonishi	Industrial Electronics / Control	(April 1998)
n) Dr. Shigeo Ohnuki	Communication Technology	(")
o) Mr. Shigeru Tsunoda	Medical Electronics Engineering	(May 1998)
p) Dr. Masazumi Kumagai	Computer Technology	(")
q) Dr. Yaushi Kato	Computer Technology	(")
r) Dr. Junji Arai	Industrial Electronics / Control	(September 1998)
s) Dr. Jiro Shimonishi	Industrial Electronics / Control	(")
t)Dr. Shigeo Ohnuki	Communication Technology	(")
u) Dr. Masazumi Kumagai	Electronics Engineering	(December 1998)
v) Dr. Yasushi Kato	Computer Technology	(")
w)Dr. Yukitoshi Tsunoda	Communication Technology	(")
x)Dr. Makoto Taniguchi	Electronics Industry	(February 1999)
y)Dr. Toru Okuyama	Computer Technology and Network	(")



ANNEX III

Counterpart training in Japan

a)Dr.Ali Nasser Al-Ghafis	College Management	(September 1997)
b)Dr.Ahmed M. A. Al-Eisa	College Management	(")
c)Eng.A. Al-Abdulkarim	Computer Tech. & Div. Management	(")
d)Eng.A. Al-Russeney	Electronics Technology/PLC	(November 1997)
e)Eng.Saleh Al-Gweifel	Electronics Technology/Electric Circuit	(")
f)Eng.Ibrahim Ghamdi	Practical Computer Technology	(August 1998)
g)Eng.Ibrahim Ghemlas	Electronics Engineering	(")
h)Eng.Ali Gomaa	ControlTechnology	(October 1998)
i)Eng.Khalid Al-Zahrani	Communication Technology	(")
j)Dr.Sulaiman Al-Dhalaan	College Management	(March 1999)
k)Dr.Omar Basodan	College Management	(")



ANNEX IV

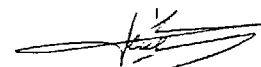
Provision of Machinery and Equipment in JFY 1997

Course	Subject	Quantity
Industrial Electronics/Control	PLC. Training System	15
	Microprocessor Training System	20
Computer	Computer Network	3
	1.Server computer 2.Client computer	10
Communication	Oscilloscope	20
	Function Generator	20
	Digital Multimeter	20
	Demodulator Board	5
	Transmission Line	5
	Fiber Optics Techniques	5
	Telephony Operating PC	5
RF Signal Generator	5	

Provision of Machinery and Equipment in JFY 1998

Course	Subject	Quantity
Common Subjects	Micro-Processor Fundamentals (not arrived yet)	2
	Copy Machine	1
Industrial Electronics/Control	Universal PLD Programmer System	15
	PLC Application	15
	Interruption Board (not arrived yet)	20
Computer	CP Network Lab. System	1
	Workstation Operating Lab.System	1
Communication	Microscopy System	2
	Optical Fiber Experimental System	1
	Fiber Loss Test	3
	OTDR (not arrived yet)	1
	TV Trainer Kit & Color Pattern Generator	3
	Acoustic Principle	3

M. J

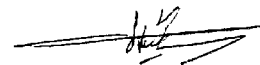


ANNEX V

College of Technology in Riyadh · Electronics Department ,List of Teachers

Course		Name	Nationality	1997.Apr~	1998.Apr~	1999.Apr.~	C/P Training
Industrial Electronics & Control Technology	Lecturer	Dr.Lazhr Abida	Algeria				
		Dr.Fahad.A.Al-Tuwaijry	Saudi Arabia	---	---	---	94.12 (2 weeks)
		Dr. Seddik Khemaissia	Algeria				
	Practical Teacher	Eng.Fahad A.S.Al-Ghasbim	Saudi Arabia				96.9(6 weeks)
		Eng.Atef.Mohammed	Egypt				
		Eng.Mohamed Shatalh	Saudi Arabia				
		Eng.Yousef A. Al-Mahayya	Saudi Arabia				95.9.18~10.28
		Eng.Siaad Fydaos	Saudi Arabia				
		Eng.Amin Al-atig	Saudi arabia				
		Eng. Khalid Al-Ageyl	Saudi Arabia				
Computer Technology	Lecturer	Eng. Ibrahim Ghemlas	Saudi Arabia				98.8.25~10.7
		Eng.Ali Gommah	Saudi Arabia				98.10.11~11.21
		Dr.Mohammed Al-Awide	Saudi Arabia				Planed in Jun.'99
		Dr.Abdulaziz A.Al-Tammami	Saudi Arabia				95.9.16~10.6
		Dr.Khalid M.Al-Rajeh	Saudi Arabia	---	---	---	95.9.16~10.6
	Practical Teacher	Eng. Abd. Al-Wehaibi(MSc)	Saudi Arabia				
		Dr.Zaky Nossair	Egypt				
		Eng.A. Al-Abdulkarim(MSc)	Saudi Arabia		---	---	97.8.21~9.10
		Eng.Ibrahim A. Al-Ghamidi	Saudi Arabia				98.8.25~10.7
		Eng.Abdulahman El-Ghefily	Saudi Arabia				Planed in Oct.99
		Mr.Adeeb Al-Dekhail	Saudi Arabia				
		Eng.Abdulla Sabah	Egypt				
		Eng.Tark Hossain	Egypt				
		Eng.Saleh Al-Sohibany	Saudi Arabia				
		Mr.Abdulaziz Al-Araig	Saudi Arabia				
		Eng.Hythem Al-Daulan	Saudi Arabia				
		Eng.Mansor Al-Daulan	Saudi Arabia				
Communication Technology	Lecturer	Dr.Mohammed Shalaby	Egypt				
		Dr.Turki S. Al-Turki	Saudi Arabia				94.12(2 weeks)
		Dr. Kador Atef	Algeria				
		Dr.Abdulaziz Shalaby	Egypt				
	Practical Teacher	Dr.Omran A. Al-Omrani	Saudi Arabia	---	---	---	96.5.28~6.20
		Eng.Mohammed Sehaff (MSc)	Saudi Arabia	---	---	---	
		Eng.Khalid El-Zahrani	Saudi Arabia				98.10.11~11.21
		Eng.Saleh Al-Gweifel	Saudi Arabia				97.10.30~12.18
		Eng. Hisham Khwater	Saudi arabia				
		Eng.Abdulahman El-Reziza	Saudi Arabia				
Common Subjects & Workshop	Lecturer	Eng. Saleh Youssef	Saudi Arabia				
		Eng. Ibrahim Al-Noisar	Saudi Arabia				
		Eng. M.Al-Abdolminam	Saudi Saudi				
		Eng. Medleg Al-Medleg	Saudi Arabia				
	Practical Teacher	Dr.Mohammed Ghazi	Egypt				
		Dr.Marzok Al-Saeed	Egypt				
		Eng.Saad Al-Olaway	Saudi Arabia				
		Eng. Ahammed Abudul Ghaffar	Egypt				
Practical Teacher	Eng.Abdulateef A.Al-Suaimar	Saudi Arabia				96.5.28~6.11	
	Eng. Saleh. Al-Ageel	Saudi Arabia					
	Eng.Maged Al-Ajlan	Saudi Arabia					
	Eng.Usama El-Shakankery	Egypt					
	Eng.Abdulrahman Al-Russenry	Saudi Arabia				97.10.30~12.18	
	Eng.Khalid Al-Shkran	Saudi Arabia					
	Eng.Khalid Mosyter	Saudi Arabia				Planed in Oct.'99	
Eng.Faleh Al-Sakran	Saudi Arabia						

 Head/Chief
 Suspended




ANNEX VI

Project Tentative Activities in JFY 1999 / 2000

M.7

Course	Subject	1999	2000
Industrial Electronics / Control (IEC)	PLC	To confirm and discuss the experiments.	
	Transducers, Process Control Lab., etc.	To discuss and demonstrate how to use memory-scope especially which has analog and digital functions.	To discuss and propose management system of laboratories.
	Power Electronics Applications	To discuss some lecture items and some experiments and demonstrate a few experiments.	
	Microprocessor Applications	To discuss and confirm the experiments and to provide cross assembler with document.	Advice and discussions are needed to design and make PIO board.
	MATLAB	To advise and discuss concerning how to use MATLAB.	
Computer (CT)	Microcomputer Lab	To confirm the contents of syllabus and experiments.	Re-examine on the lab equipment
	Computer Servicing & Trouble shooting	To confirm the contents of lab and prepare some equipment to carry out the Lab.	Preparation and adjustment for the contents of lab
	Computer Network Operating System	To examine the contents syllabus and contents of experiments.	To examine the lab guide and equipment
Communication (COM)	Basic Telephony System	To adjust the lab syllabus & contents of Lab.	Re-examine the whole lab experiments and equipment
	Introduction to Microwaves	To advise the contents of experiments and preparation for the lab.	Re-examine the whole lab experiments and equipment
	Introduction to Acoustic and Video Engineering	To examine the contents of lab experiments and to confirm the condition for the preparation for lab.	Re-examine the whole lab experiments and equipment
	Data Communication	To adjust the contents of curriculum and syllabus. To examine the lab equipment.	Re-examine the whole lab experiments and equipment. If necessity arise, to be considered.
Common (CMN)	Electronics I, II		To offer some audio-visual materials.
	Electronic circuit		The training in the experiments is not finished.
	Logic circuit	To discuss and demonstrate some experiments using the boards.	
	Workshops	To discuss contents and propose some new ideas.	
Others	Short course	Short Course is planned.	
	Seminar		Seminar is planned to hold.
NOTE	Curriculum	To discuss and advise to revise if there are any items to be improved.	To discuss and advise to revise if there are any items to be improved.
	Experiment	To demonstrate and offer some problem solving programs using C language. To demonstrate some experiments concerning mainly electronic circuits with document.	To demonstrate some experiments concerning mainly electronic circuits with document.

ANNEX-VII

TENTATIVE SCHEDULE OF IMPLEMENTATION FOR JFY 1999

Schedule	1999												2000		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
1. Important Events															
(1) Joint Coordinating Committee	★														★
(2) Project Steering Committee	★	★				★	★	★	★	★	★	★			
(3) Sub-Committee	---	---				---	---	---	---	---	---	---			
(4) Meeting of Project Leaders in Tokyo															★
2. Main Activities															
(1) Elaboration of annual activities plan	—————														
(2) Design and development of education program															
a. Reconfirmation of current curricula and syllabi	—————														
b. Reconfirmation of implementation of experiments	—————														
c. Confirmation improvement of curricula, syllabi and experiments		—													—
d. General advisory activities	—————														
e. Intensive advisory activities for specific subject						—		—							
(3) Implementation of special lecture (Short-Course)															—
(4) Provision of the Equipment															
a. Examination of the Equipment contents	—————														
b. Making of Application		—													
c. Delivery of the Equipment						—	—	—	—						
d. Demonstration and guidance of the Equipment operation						—	—	—	—						
(5) Support for training of Saudi Arabian C/P in Japan															
a. Pre-training guidance		—					—								
b. Follow-up activities							—		—						
(6) Preparation for Joint Coordinating Committee															
(7) Elaboration of activities for JFY 2000															—
3. Input for the activities															
(1) Dispatch of Japanese Experts (Long-Term)															
a. Chief advisor	—————														
b. Coordinator	—————														
c. Expert on electronics	—————														
d. Expert on electronics	—————														
(2) Dispatch of Japanese Experts (Short-Term)															
a. IEC Course						—		—							
b. CT Course						—		—							
c. COM Course						—		—							
d. CMN Course						—		—							
e. Short Course															—
(3) Training of Saudi Arabian C/P in Japan															
(4) Provision of the Equipment															—

Mi J