

2 アンケート様式

アンケートは、帰国研修員用、上司用、選考機関用の3種類を作成した。

Dear Sir,

I suppose you have been actively engaged in work in good health since you returned from Japan to your country.

It is my great pleasure to inform you that the Japan International Cooperation Agency (former Overseas Technical Cooperation Agency), has been expanding and improving its technical training programme year after year. It has accepted a total of 41,929 participants from developing countries since 1954. In fiscal 1982, we plan to accept 3,641 participants and conduct 183 group training courses and seminars.

In programming future training courses, we would like to put importance not only on increasing their number to meet the increasing requests from participating countries but also on improving their content.

For this purpose we would like to know how and to what extent the ex-participants in our courses are making use of the knowledge and technology acquired in Japan and what they think is required for improving our courses.

It is also important to brush-up and up-grade what you learned in Japan by providing you with information on latest developments in your field of activity.

For these purposes, JICA dispatches several technical follow-up teams to participating countries every year.

JICA is now planning to send to your country a follow-up team in the field of your expertise. Please refer to the attached documents for its schedule and visiting places.

We wish to know views exchanged between you and our team for the betterment of our training programme.

We shall be grateful if you could extend your kind cooperation to our visiting team during its stay in your country.

Yours Sincerely,

Hiroshi YAMAMURA
Director,
Training Affairs Department,
Japan International Cooperation Agency

I) Follow-up Team for Ex-participants in

a. Objective : Follow-up team will visit ex-participants' organizations and related organs for the purpose of evaluating the results of training in Japan and assessing problems and needs in participants' countries as well as for improving JICA's training programme.

b. Period : From 22nd January, 1983 to 6th February, 1983

For details, please refer to the tentative schedule (Appendix-1) attached hereto.

c. Members : 1. Isao KIMATA

Chief Instructor: Irrigation and Drainage Course
Tsukuba International Agricultural Training Centre, JICA

2. Kazuo NAKAGAWA

Instructor : ditto

3. Makoto AOKI

Instructor : ditto

II) Help Requested from you

a. You are kindly requested to prepare a short report according to the questionnaire (Appendix-2) and hand it to the visiting team. (In case you cannot meet the team, please ask your friend to convey it to the team or send it to the following address so that your report may reach the follow-up team not later than.)

Jakarta Office, JICA
c/o Embassy of Japan, 24, Jalan Thamrin,
Jakarta, Indonesia

b. We would like visit some organizations in your country according to the schedule. The appointment with the persons to meet about the date and place of meeting, etc. will be arranged through the Japanese Embassy. The request about our visit will be conveyed to you directly or through your superior.

TENTATIVE SCHEDULE

- | | | | |
|-----|----------------|--|---------|
| 1. | Jan. 22 (Sat.) | From Tokyo (9:40) to Jakarta (17:50) by JL 721 | Jakarta |
| 2. | 23 (Sun.) | Meeting with Ex-participants | -do- |
| 3. | 24 (Mon.) | Visit JICA Jakarta Office
Coutesy call to Embassy of Japan
Meeting with Ex-participants | -do- |
| 4. | 25 (Tue.) | Meeting with Ex-participants | -do- |
| 5. | 26 (Wed.) | Meeting with Ex-participants
Friendship Party with Ex-participants | -do- |
| 6. | 27 (Thu.) | Visit some Agricultural Development Project | -do- |
| 7. | 28 (Fri.) | Visit Governmental Organizations concerned
Make Report and put collected data in order | -do- |
| 8. | 29 (Sat.) | Visit JICA Jakarta Ofvice
Coutesy call to Embassy of Japan | -do- |
| 9. | 30 (Sun.) | From Jakarta (6:00) to Manila (12:10) by
GA 936 | Manila |
| 10. | 31 (Mon.) | Visit JICA Manila Office
Coutesy call to Embassy of Japan
Meeting with EX-participants | -do- |
| 11. | Feb. 1 (Tue.) | Meeting with Ex-participants | -do- |
| 12. | 2 (Wed.) | From Manila (6:00) to Tuguegarao (7:15) by
PR 218
Visit Cagayan Integrated Agricultural Develop-
ment Project | Cagayan |
| 13. | 3 (Thu.) | From Tuguegarao (14:05) to Manila (15:20) by
PR 217
Friendship Party with Ex-participants | Manila |
| 14. | 4 (Fri.) | Visit Governmental Organizations concerned
Make Report and put collected data in order | -do- |

15. Feb. 5 (Sat.) Visit JICA Manila Office Manila
Coutesy call to Embassy of Japan
16. 6 (Sun.) From Manila (14:45) to Tokyo (21:05) by JL 748

(帰国研修員用)

November 24th, 1982

Dear ex-participants

I feel very happy to be able to inform you that the technical follow-up team for the group training course on Irrigation and Drainage (refer to the attached paper) will be dispatched to your country so as to grasp the movements of ex-participants after leaving Japan and accept the precious proposal and suggestions for the improvement of the course in future from ex-participants and persons concerned.

I enclose the questionnaire to you. I would be very appreciative if you will fill it out and hand it to me at the time we meet in your country.

And as I also enclose another questionnaire for your superior officer, I would like ask you heartily to explain its purpose to him and ask him to fill it out.

I hope you and your superior officer forgive me for bothering you.

I am looking forward to the day we can meet in your country with pleasure.

Your sincerely,

Isao KIMATA
Chief Instructor,
Irrigation and Drainage Course
T.I.A.T.C., J.I.C.A.

QUESTIONNAIRE

To the Ex-participants of the
Course in Irrigation and Drainage

We appreciate greatly your cooperation in answering the following questions to help us effectuate the visit. (Kindly please write in block letters or typewrite.)

I. General question

1. Full name: _____
2. Home address: _____

3. Year of your participation: _____
4. Name of the organization you belong now: _____

5. Office address: _____

6. Your position: _____
7. Employment record: _____

Duration of service	Position	Organization
- Visiting Japan		
Leaving Japan -		
-		
-		
-		
- Present		

II. Question on your present job

1. Please describe the work of your organization.
2. Please give a brief description of your duties in the present job.
3. If you or your office face any technical problems now, please describe them and the countermeasures you took.

III. Question on the course you attended

1. Please tick those boxes one in each of the sections (a) to (e), and, in-appropriate cases, the boxes in (f).

In all cases the boxes ticked should be those which correspond most nearly to your views on the suitability of the study/training given.

(a) Subjects	<input type="checkbox"/>	Coverage too broad
	<input type="checkbox"/>	Coverage just right
	<input type="checkbox"/>	Coverage incomplets
(b) Level	<input type="checkbox"/>	Too advanced
	<input type="checkbox"/>	Just right
	<input type="checkbox"/>	Too elementary
(c) Clarity of	<input type="checkbox"/>	Very clear
	<input type="checkbox"/>	Adequate
	<input type="checkbox"/>	Difficult to follow
(d) Treatment	<input type="checkbox"/>	Not enough practical
	<input type="checkbox"/>	Just right
	<input type="checkbox"/>	No enough theoretical
(e) Duration	<input type="checkbox"/>	Too short
	<input type="checkbox"/>	Just right
	<input type="checkbox"/>	Too long
(f) Others	<input type="checkbox"/>	Language problems
	<input type="checkbox"/>	Background of participants
	<input type="checkbox"/>	too diversified
	<input type="checkbox"/>	Little applicability

2. Do you have any proposal or suggestions for the improvement of the course in future? (Please refer to the Training Programme in 1982: Appendix-3)

(a) Lectures:

(b) Experiments and Practices:

(c) Country reporting:

(d) Test (Evaluation):

(e) Study tour and Observation:

(f) Sports meeting:

(g) Others:

IV. Question on the follow-up activities

What kind of follow-up activities of the course do you request?

(Please tick off the appropriate items.)

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Sending literature and technical information

Technical consultation

Retraining or re-fresher training

Others, if any _____

V. Question on the friend-ship activities among the ex-participants

1. Do you have an alumni association in your country?

2. What kind of activities do you have every year?

3. Do you have any sort of contact with other ex-participants of the same course in and out of your country?

VI. Any other comments

Date: _____ Signature: _____

QUESTIONNAIRE

To whom it may concerned

We appreciate greatly your cooperation in answering the following questions to help us effectuate the visit. (Kindly please write in block letters or typewrite.)

I. General question

- 1. Your name: _____
- 2. Name of the organization you belong: _____

- 3. Office address: _____

- 4. Your position: _____
- 5. Relation between you and Mr. _____

II. Question on the technical training on irrigation and drainage in Japan

- 1. Have you known our course? Yes
 No
- 2. If your answer is yes, when and how did you come to know our course?
- 3. Do you know Mr. _____ is one of the ex-participants of our course in your country? Yes
 No
- 4. Do you have an intention to send your staff to our course as participants in future? Yes
 No
- 5. How many engineers, who are suitable for participating to our course, dose your office have?

6. What kind of technical training (Purpose, subject, training method, etc.) do you request to our course?

III. If you have any request or suggestion to the Japan International Cooperation Agency, please describe.

Date: _____ Signature: _____

QUESTIONNAIRE

To whom it may concerned

We appreciate greatly your cooperation in answering the following questions to help us effectuate the visit. (Kindly please write in block letter or typewrite.)

I. General question

1. Your name: _____
2. Your position: _____
3. Name of the organization you belong: _____
4. Office address: _____

II. Question on the selection system of the applicants

1. When does your organization receive the general information (GI) on the group training course from Japanese government every year?
2. How dose your government select the applicants?
 - (a) How to nominate?
 - (b) How to select?
 - (c) How to determine?

III. If you have any request or suggestions to the Japan International Cooperation Agency (JICA), please describe.

Date: _____ Signature: _____

3. 灌漑排水コース応募要項

昭和57年度の研修員応募要項は、次の通りである。

INFORMATION ON GROUP TRAINING COURSE IN
IRRIGATION AND DRAINAGE
1982 - 83
BY THE GOVERNMENT OF JAPAN

I. Introduction

The Group Training Course in Irrigation and Drainage in fiscal 1982 (April 1, 1982 - March 31, 1983) will be conducted by the Government of Japan as part of its Technical Cooperation Programmes for developing countries with a view to helping these countries to upgrade their techniques in this field, and thus to promoting friendly relations between them and Japan.

Arrangements for conducting the course are administered by Japan International Cooperation Agency (hereinafter referred to as JICA), commissioned by the Government of Japan to execute technical cooperation programmes in collaboration with related organizations.

II. Purpose

The purpose of this course is to systematically introduce the civil engineers who are engaged in land improvement works to scientific knowledge and technology of the small scale irrigation and drainage schemes for rice cultivation.

III. Programme

The programme of the course is as attached in the Appendix.

IV. Qualifications of Applicants

Applicants are to:

- (1) be nominated by their government in accordance with the procedures in VIII (1) below,
- (2) be university graduates (or their equivalents) with occupational experience of more than three years in their specialities,
- (3) be presently engaged in practical works in irrigation and drainage,
- (4) be between twenty seven (27) and thirty seven (37) years of age,

- (5) have a sufficient command of spoken and written English, and
- (6) be in good health, both physically and mentally, to undergo the course of training. Pregnancy is regarded as a disqualifying condition for participation in the course.

V. Duration

From February 18, 1982 to November 30, 1982.

VI. Language

The course will be conducted in English or through interpretation of Japanese into English.

VII. Facilities and Institutions

(1) Training Institution

Tsukuba International Agricultural Training Centre (TIATC), JICA
3-7, Koyadai, Yatabe-machi, Tsukuba-gun,
Ibaraki-ken 305 Japan

(2) Location

The Centre is located in Tsukuba Science City near Tsuchiura City,
some 60 km to the northeast of Tokyo.

(3) Facilities for Training

Main building, lecture rooms and experimental laboratories for the
course, workshops, farming machines, practical & experimental
paddy/upland fields, and green houses.

(4) In the Centre, the following three other training courses will be
conducted, namely, Rice Cultivation, Rice Production Mechanization
and Vegetable Crops Production.

VIII. Procedures for Application

- (1) The Government desiring to nominate applicants for the course should fill in and forward five (5) copies of the Nomination Form (Form A-3) for each applicant to the Government of Japan through the Embassy of Japan not later than December 10, 1981.

- (2) The Government of Japan will inform the applying government whether or not the nominee is acceptable to the course not later than January 10, 1982.

IX. Allowances and Expenses to be borne by the Government of Japan in accordance with JICA rules and regulations

- (1) Economy-class air-ticket between the international airport designated by JICA and Tokyo.
- (2) An allowance of ¥3,750 per diem and other allowances for outfit, book, and literature-transport charges in addition to free lodging and breakfast at JICA Training Centres.
- (3) Free medical care for participants who become ill after arrival in Japan.
- (4) Expenses for JICA study tour.

X. Accommodation

Tsukuba International Centre

XI. Certificate

Participants who have successfully completed the course will be awarded a certificate by JICA.

XII. Other Information

- (1) Participants are required to arrive in Japan on the date designated by the Government of Japan after confirmation of acceptance as mentioned in VIII (2) above. However, the date will be finally confirmed through the air-ticket sent to the participants.
- (2) On arrival at New Tokyo International Airport at Narita, participants are requested to follow the undermentioned arrival procedure.
 - i) When they have completed quarantine, immigration, and customs clearance procedure, they will go to one of the Meeting Service counters located in the North and South Wings of the arrival terminal.
 - ii) Bus tickets to Tokyo City Air Terminal (TCAT) will be provided at the counter and a service staff will help them to the airport bus terminal.

- iii) Airport bus service to TCAT will take approximately 90 minutes.
 - iv) Upon arrival at TCAT, JICA designated travel agents will meet them and will take them directly to one of the training centres, or if necessary, to a hotel where reservations will be made for them by JICA. (Agents will give them information on their schedule and will answer their questions.)
 - v) The Meeting Service counter will close at 10 p.m. In case they arrive after 10 p.m., instead of going to the Meeting Service counter, they will go to the Arrival Information counter of Japan Air Lines (JAL) in the North Wing Terminal or the arrival lobby. JAL attendants will direct them to the TCAT airport bus. At TCAT, a travel agent will be waiting for them.
- (3) Participants are required to observe strictly the course schedule.
 - (4) Application to change the training subject or extend the training period will not be accepted.
 - (5) The participant may be sent back home when he is considered unable to undergo training due to any mental or physical disabilities.
 - (6) In order to carry out the course in group, participants are strongly requested not to bring any member of their family.
 - (7) For administrative uses, participants are requested to bring five (5) copies of their photograph (passport size).
 - (8) Participants are requested to follow the return trip schedule designated by JICA.
 - (9) The mean monthly temperature in Ibaraki are as given below. Participants are advised to prepare appropriate clothes.

Month	Max. Temp.	Min. Temp.	Humidity	Precipitation
February	11.8°C	-2.4°C	68%	54.5 mm
March	17.2	-0.6	71	97.2
April	21.1	6.1	74	105.8
May	23.7	11.3	79	141.7
June	27.6	15.9	84	185.0
July	29.5	20.1	87	144.3
August	25.7	21.6	85	125.5
September	20.3	17.6	85	167.1
October	16.0	11.2	83	175.6
November	11.7	4.9	78	82.3

- (10) Further information concerning the course is available at the following address:

First Training Divisions,
Japan International Cooperation Agency,
P.O. Box 216, Shinjuku Mitsui Bldg.
2-1, Nishi-shinjuku, Shinjuku-ku,
Tokyo, 160 JAPAN
Tel.: Tokyo (03) 346-5155
Cable address: JICAHDQ TOKYO
Telex: J22271

Appendix

Training Programme

The training curriculum comprises of lecture, experiment, practice and observation on irrigation, drainage and reclamation engineering. During the training period, special emphasis is placed on systematic and field application of all works ranging from investigation, planning, design, execution and maintenance of "irrigation and drainage" and "reclamation and consolidation".

The tentative units of the curriculum subject are as follows:

Item	Lecture	Experi- ment	Practice	Obs- er- vation	Total
1. Agriculture in general	14	-	-	-	14
2. Irrigation and drainage	30	24	16	16	86
3. Reclamation and consolidation	30	20	16	20	86
4. Structure and construction	24	12	14	28	78
5. Related subject	28	-	10	20	58
Total	126	56	56	84	322

- Remarks:
1. 30 units for orientation, 20 units for Japanese lessons and 35 units for self-study and report making are not included in the table.
 2. There are 2 units in a day and 11 units in a week.

	Units
1. Orientation	<u>30</u>
1) Introduction of Japan	
2) Living guidance	
3) Characteristics of Japanese culture	
4) Introduction of the training programme	
2. Japanese Lessons (Daily conversation)	<u>20</u>
3. Lecture	<u>126</u>
1) Agriculture in general	(14)
(1) History of agricultural development and present situations in Japan	
(2) Guidance and fostering of agricultural cooperatives	
(3) The role of cooperatives for agricultural development	
(4) Problems confronting agriculture in the tropics	
(5) Project formulation	
2) Irrigation and drainage	(30)
(1) Irrigation planning	
(2) Drainage planning	
(3) Duty of water for paddy field	
(4) Field irrigation planning	
(5) Water resources development	
3) Reclamation and consolidation	(30)
(1) Agricultural land reclamation	
(2) Agricultural land consolidation	

	(3) Agricultural land conservation	
	(4) Reclamation in water area	
	(5) Agricultural land and soils	
4)	Structure and construction	(24)
	(1) Design of dams	
	(2) Design of headworks	
	(3) Design of diversion works	
	(4) Maintenance and management of facilities	
	(5) Construction equipments	
5)	Related subject	(28)
	(1) Civil engineering materials	
	(2) Surveying	
	(3) Project economics	
	(4) Irrigation water management	
	(5) General theory of plant cultivation	
	(6) Applied mathematics for engineers and computer soft-ware	
4.	Experiment	<u>56</u>
1)	Irrigation and drainage	(24)
	(1) Hydraulic experiment	
	(2) Hydraulic model studies	
	(3) Agricultural hydrotechnical experiment	
2)	Reclamation and consolidation	(20)
	(1) Soil mechanical experiment	
	(2) Soil physical experiment	

3)	Structure and construction	(12)
	(1) Tests on concrete and its ingredients	
	(2) Soil dynamics experiment	
5.	Practice	<u>56</u>
1)	Irrigation and drainage	(16)
	(1) Measurement of water requirement in depth	
	(2) Groundwater prospecting and boring	
2)	Reclamation and consolidation	(16)
	(1) Agricultural land survey	
	(2) Investigation of field condition	
	(3) Measurement of bearing capacity of soil	
3)	Structure and construction	(14)
	(1) Concrete mixing	
	(2) Operation of agricultural machinery	
4)	Related subject	(10)
	(1) Meteorological observation	
	(2) Geological survey	
6.	Observation	<u>84</u>
1)	Irrigation and drainage	(16)
	(1) Irrigation and drainage project	
	(2) Field irrigation and drainage project	
2)	Reclamation and consolidation	(20)
	(1) Agricultural land reclamation project	
	(2) Agricultural land consolidation project	

- (3) Sea reclamation project
- 3) Structure and construction (28)
 - (1) Concrete dam construction project
 - (2) Fill-type earth and rockfill dam construction project
- 4) Related subject (20)
 - (1) National research institutes
 - (2) Construction equipment manufacturing plants
 - (3) Land improvement district, agricultural cooperatives, etc.

Remarks: The participants are requested to bring reference materials with them relating to the status quo and problems of land improvement works concerning irrigation, drainage and reclamation in their home countries.

4. 灌漑排水コース研修員受入れ実績

昭和43年～57年の実績は、次の通りである。

尚、昭和58年(1983)は計14名を受入れ予定で、その国別内訳は、インドネシア(1) マレーシア(1)、フィリピン(2)、タイ(1)、バングラデシュ(1)、シリア(1)、エジプト(1)、エチオピア(1)、マリ(1)、シェラレオネ(1)、スーダン(1)、ブラジル(1)、ドミニカ(1)の計13ヶ国である。

地域	年 数 年 名	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	合計	備考	
		昭43	44	45	46	47	48	49	50	51	52	53	54	55	56	57			
		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982			
東南アジア	ビルマ	1	—	1	—	—	—	—	—	—	—	—	—	*	1	—	* 3(2)	() *短期受入れ	
	インドネシア	1	1	—	2	2	2	6	6	2	1	2	2	2	1	1	31		
	カンボジア	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	2		
	ラオス	—	1	1	1	—	—	2	2	—	—	—	—	—	—	—	7		
	マレーシア	1	—	—	—	—	—	—	1	1	—	—	1	1	1	—	6		
	フィリピン	—	1	(2)	1	2	1	3	1	2	1	2	—	1	1	2	* 18(2)		
	タイ	1	1	3	1	—	—	—	1	—	—	1	2	1	1	2	14		
	小計	4	4	* 5(2)	5	5	4	11	11	5	2	5	5	* 5(2)	5	5	* 81(4)		
アジア	バングラデシュ	1	1	—	—	—	—	2	—	1	1	1	—	—	—	—	7		
	ブータン	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1		
	インド	—	—	—	—	—	—	1	3	—	—	1	1	1	—	—	7		
	ネパール	—	—	—	—	—	—	1	—	2	—	—	1	1	1	—	6		
	パキスタン	—	—	—	1	—	—	—	—	—	1	—	1	1	1	1	6		
	スリランカ	2	—	1	2	1	1	3	3	2	1	1	—	1	1	—	19		
		小計	3	1	1	3	1	1	8	6	5	3	3	3	4	3	1	46	
中近東	アフガニスタン	—	1	1	—	—	—	—	—	—	—	—	—	1	—	—	2		
	イラン	1	1	1	1	1	—	—	1	1	—	1	—	1	—	1	9		
	イラク	1	1	—	1	1	—	—	—	—	—	—	—	1	1	—	5		
	シリア	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1		
	トルコ	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	1		
		小計	2	3	2	2	3	0	0	1	1	0	1	0	0	2	1	18	
	アフリカ	ガボン	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	
ガーナ		—	1(1)	—	—	—	—	—	—	—	—	—	—	—	—	—	1(1)	() 早期帰国	
ナイジェリア		1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	3		
リベリア		—	—	—	—	—	—	—	—	1	—	1	1	—	—	—	3		
スーダン		—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	2		
タンザニア		—	—	—	—	—	—	—	—	—	—	—	1	1	—	2	1	5	
ウガンダ		—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1		
エジプト		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	
		小計	1	2(1)	0	0	0	0	0	0	1	2	2	2	1	3	3	17	
中南米	ブラジル	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1	4		
	ドミニカ	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	2		
	メキシコ	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1		
	トリニダード トバゴ	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1		
		小計	0	0	0	0	0	0	0	0	0	3	1	1	1	0	2	8	
	合計	10	10(1)	* 8(2)	10	9	5	19	18	12	10	12	11	* 11(2)	13	12	170	(1) (4) *	

Number of participant accepted to I & D course (1968 ~ 1983)

Area	Country	Year																Total	Remarks
		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983		
South-east Asia	Burma	1	1	1	2	2	2	6	6	2	1	2	2	2	1	1	1	3	
	Indonesia	1	1	1	1	1	1	2	2	2	1	2	2	2	1	1	1	32	
	Khmer																	2	
	Laos																	7	
	Malaysia	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	7	
	Philippines	1	1	1	1	2	1	3	1	2	1	2	1	1	1	2	2	20	
Thailand	1	1	3	1	1	1	1	1	1	1	2	1	1	1	2	1	15		
	Sub Total	4	4	5	5	5	3	11	11	5	2	5	5	5	5	5	86		
South Asia	Bangladesh	1	1					2	1	1	1	1					8		
	Bhutan							1									1		
	India							1	3		1	1	1	1			7		
	Nepal							1			1	1	1	1			6		
	Pakistan							1			1	1	1	1			6		
	Sri-Lanka	2	1	2	1	1	1	3	3	2	1	1	1	1	1	1	19		
	Sub Total	3	1	1	3	1	1	8	6	5	3	3	4	3	1	1	47		
Middle and Near East	Afghanistan	1	1														2		
	Iran	1	1	1	1	1		1	1		1				1		9		
	Iraq	1	1	1	1	1											5		
	Syria																2		
	Turkey					1											1		
	Sub Total	2	3	2	2	3	0	0	1	1	0	1	0	2	1	1	19		
Africa	Egypt																2		
	Ethiopia																1		
	Gabon																1		
	Ghana																1		
	Liberia	1															1		
	Mali									1	1	1					3		
	Nigeria																1		
	Sierra Leone	1	1										1				3		
	Sudan																1		
	Tanzania									1	1	1	1				5		
Uganda														2	1	1			
	Sub Total	1	2	0	0	0	0	0	1	2	2	2	1	3	3	5	22		
Central and South America	Brazil																5		
	Dominican										1	1	1				3		
	Mexico																1		
	Trinidad-Tobago																1		
	Sub Total	0	0	0	0	0	0	0	0	3	1	1	1	0	2	2	10		
	Total	10	10	8	10	9	5	19	18	12	10	11	11	13	12	14	184		

5. 灌漑排水コース研修計画

昭和57年度の研修計画(和・英)は、P.73及び74に載せた。

“土地改良計画”の一連の講義は本コースの柱であり、“その他農業土木”では、土地改良計画に係る講義の中から、特に肝要と思われる内容を抽出し、各々一層深く専門的に掘下げている。“演習”では、講義のみでは理解しにくいものについて、実際の演習を通じて理解を深める様に講義と一連にして設定している。“実験・実習”では、現場に必要な基礎的事項を、応用/適用迄の概説を含めて、講義に絡めての実験・実習日設定を図っている。“見学及び研修旅行”では、講義、実験・実習等一連の適用として、各々テーマを絞り現場見学を実施し、灌漑排水に係る種々様々な技術修得を形成させている。従って、可能な限り工事最盛期の現場を選択している。

6. 灌漑排水コーステキスト一覧

研修をより効果的、効率的に実施する為に、テキストの充実は必要不可欠である。本コース発足以来、コース職員の手により、今日迄P.75の様なテキスト類が作成されている。今後も一層の充実を図っていきたい。

尚、これらは印刷されたテキスト類で、他に英文タイプによるテキストは種々多々作成し、使用している。

昭和57年 灌溉排水コース 研修計画表

項目	講義		実験		他		見学及び研修旅行	備考 (◎はその月のサブテーマ)
	土地改良計画	その他農業土木	農業一般	実験	実験	演習		
2								2月18日研修員来日 オリエンテーション
3	日本の土地改良の 仕組						県内土地改良工事(圃場 整備、畑地灌溉) 東京(気象計器類、英文 図書)	開講式(3月19日(金)) 日本語集中講義(9日高) ◎日本の土地改良入門
4	圃場整備の為の計 画調査 区画整備計画	F/S調査(主要指標) 日本の水事情 流量概論 経済効果	日本の稲作 日本の文化 日本農業の特色	土質(含水比、比重、 コンシステンシー)	測量(概要、距離)	水文(面積雨量) 区画割り演習	関東(利根川流域開発)	◎日本の農業、流域開発
5	用水計画	水田用水量 農用地造成 日本の農業開発協力		土質(粒度分析)	測量(平板) 操作案(田植え) 水田用水量の測定	水文(流出解析) 用水量算定演習	北陸(農用地造成、 大規模排水)	◎農用地造成
6	排水計画 農道計画	コンクリート工学 パイプラインの設計	農協(1)	水理(堰の検定、管 路の流量測定) 土質(CBR、突進め)	測量(水準) コンクリート材料、 配合設計)		中川ヒューム管橋 沖繩(地下ダム、特殊土壁)	◎土木材料
7	整地計画 分水工 落差工	畑地灌溉 頭首工	熱帯農業 施設園芸	水理(噴品流、落射流、 オリフェイス) 土質(水性)	畑地灌溉(容入能、 畑地灌溉用水量) コンクリート(圧縮試験)		北海道(草地改良、 多目的畑地灌溉、 特殊ダム、泥炭地)	◎畑地灌溉 前期試験(7月17日)
8		水理ノモグラフの 利用法 水管理 フィリピンダム		水理(流速分布、損 失、跌水) 土質(一軸圧縮)	河川流量観測 測量(多角)	畑地用水量算定演習	東海(水田及び畑地灌溉 事業、水資源開発 公社、土地改良区)	◎Discover Japan ペルーポーク大会(8月11日) 夏休み(8月12日~16日)
9	ポンプ計画 建設機械	ポンプ工学 地下水探査(RP利用) 電気集水法	農協(2)	ポンプ効率 土質(圧密、一面剪 断、三軸圧縮)	測量(路線) 電気探査		福島(フィルグレイブダム)	◎ダム、地下水 早球大会(9月9日)
10	漏水防止工法 換地処分	低湿地開発の手法 製図概論	圃場機械と農業用 施設	水質(pH, SS, BOD TN 他)	水利(地耐力、三相 分布、PF) 農作業(取種、脱穀)	農道設計演習	関西(建設機械、水門他)	◎農道設計 後期試験(10月16日)
11	土地改良総括	カンピューター コンピュータ入門		実習報告会		プログラミング演習	筑波研究学園都市内諸機 関 東京(JICA 航空写真)	エペリエーション(11月22日) 閉講式(11月26日)
備考	1. 灌溉排水コース 職員(3名) 研修員(10ヶ国12名) 2. 研修期間 約9.5ヶ月 3. 講義(32%)、実験・実習(34%)、見学・研修旅行(26%)、その他(8%)							

国際協力事業団 筑波国際農業研修センター 灌溉排水コース

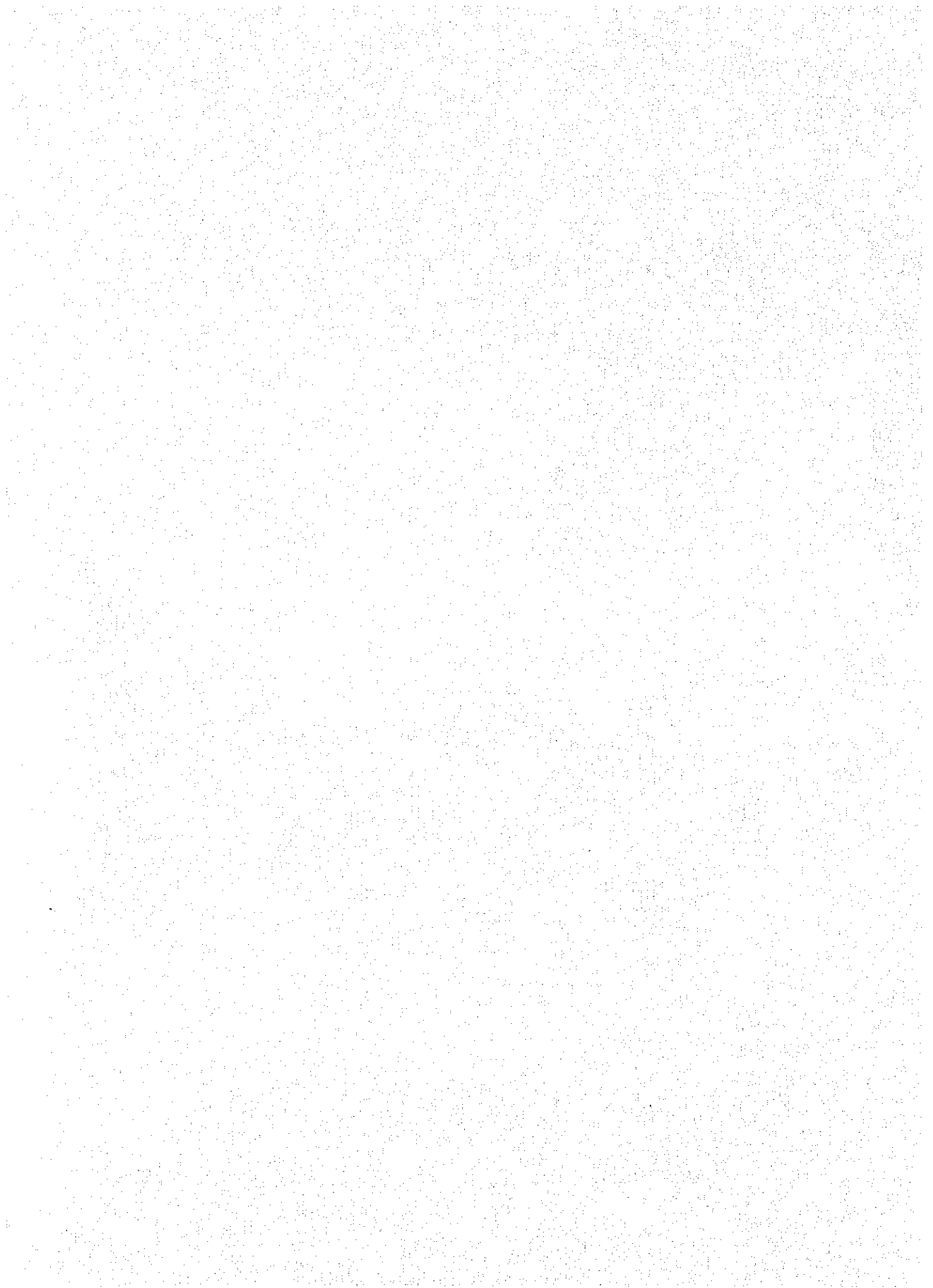
TRAINING PROGRAM OF IRRIGATION AND DRAINAGE COURSE (1982)

Category Month	LECTURE				Experiment	Practice	Exercise	OBSERVATION & STUDY TOUR	REMARKS (Sub-theme)
	Land Improvement	Irrigation & Drainage	Agriculture in General	General					
February									Orientation at T.I.C.
March	*Irrigation and Drainage in Japan in general					*Meteorological Observation		*Land Improvement Products in Ibaraki Prefecture *Tokyo District	Opening Ceremony (19 March) Japanese Language Intensive Lecture (9 days) Introduction of I&D in Japan
April	*Investigation for Land Consolidation Project *Block Reformation	*Feasibility Study *Water Situation in Japan *Surveying in general *Economic Evaluation	*Rice Cultivation in Japan *Characteristics of Japanese culture *Agriculture in Japan	*Soil (Moisture Content, Specific Gravity, Consistency)	*Surveying (Distance)		*Hydrology (Areal Rainfall) *Block Reformation	*Kanto District (River Basin Development)	Japanese Agriculture, River Basin Development
May	*Irrigation Planning	*Water Requirement in Paddy Field *Land Clearing *Agricultural Development *Cooperation Activities of JIDA		*Soil (Grain Size Analysis)	*Surveying (Plane-table) *Transplanting *Measurement of Water Requirement in Paddy Field		*Hydrology (Run-off Analysis) *Calculation of duty of water	*Hokuriku District (Land Clearing, Drainage Project)	Land Clearing
June	*Drainage Planning *Farm Road Planning	*Concrete in general *Design of Pipeline	*Agricultural Cooperatives (No.1)	*Hydraulics (Weir, Venturimeter) *Soil (CBR, Compaction)	*Surveying (Level) *Concrete (Material, Mix proportion)			*Hime Pipe Co. Ltd *Chinawa District (Underground Dam, Special Soil)	Concrete
July	*Levelling Planning *Diversion Works *Drop Works	*Field Irrigation *Head Works	*Research on Tropical Agriculture *Facilitated Horticulture	*Hydraulics (Orifice, Weir, Flood Number) *Soil (Permeability)	*Field Irrigation (Intra-riace, Water Requirement in Upland Field) *Concrete (Compression)		*Design of Head Works	*Hokkaido District (Grass Land Development, Peat Soil etc.)	*Field Irrigation
August		*Hydraulic Non-scap Management *Fill-type Dam		*Hydraulics (Loss, Hydraulic Jump etc.) *Soil (Unconfined Compression)	*River Flow Measurement *Surveying (Traverse)		*Calculation of Water Requirement in Upland Field	*Tokai District (Paddy & Upland Field Irrigation)	Discover Japan Volleyball Match (11, Aug.) Summer Vacation (12 ~ 16, Aug.)
September	*Pump Planning *Construction Equipment	*Pump for ground water prospecting *Electric Detection	*Agricultural Cooperatives (No.2)	*Pump Efficiency *Soil (Consolidation, Direct Shear, Triaxial Compression)	*Surveying (Route) *Electric Direction			*Fukushima District (Fill-type Dam)	Dam, Underground Water Pumping Match (9, Sep.)
October	*Leakage Control of Reservoir *Grouping of Farmland	*Swampy Lowland Development *Drawing in general	*Agricultural Machinery in general	*Water Quality (pH, SS, BOD, TN, etc.)	*Cone-penetrometer, etc. *Harvesting, Threshing		*Farm Road Designing	*Kansai & Chugoku District (Construction Equipment, Gate etc.)	Farm Road Design Test No.2 (16, Oct.)
November	*Land Improvement in general	*Country Report *Computer in general			*Practice Report		*Software Programming	*Research Institutes in Tsukuba *Science City *Tokyo District (JICA HQ, Aerial Photograph)	Evaluation (22, Nov.) Closing Ceremony (26, Nov.)

Tsukuba International Agricultural Training Centre J.I.C.A.

英文テキストのリスト (昭和58・1・5現在)

No.	テキスト名	作成年月	ページ数	備考
I. Land Clearing and Land Consolidation				
401	Land Clearing (Part-1)	S.51. 5	88	
402	Land Clearing (Part-2)	S.53.11	122	
602	Planning and Execution of Construction on Land Improvement Works	S.46. 4	135	
II. Irrigation and Drainage				
204	Irrigation Water Management	S.54. 9	163	
301	Field Irrigation (Part-1)		92	
302	Field Irrigation (Part-3)	S.48. 8	106	
304	IRRIGATION	S.56. 3	168	
501	Drainage of Agricultural Land	S.53. 2	470	
801	Agricultural Engineering Activities in Japan	S.53. 3	160	
802	Irrigation and Drainage in Japan	S.53. 3	57	
803	Rice Irrigation in Japan	S.51. 7	86	
III. Hydraulics, Groundwater, etc				
703	Hydraulic Nomograph	S.52. 6	68	
704	Groundwater Prospecting	S.48. 4	34	
705	Hydraulic Measurements	S.53. 3	74	
706	Well Hydraulics	S.51.10	56	
710	Hydraulic Test	S.56. 6	57	
IV. Design of Structures				
101	Design of Fill-type Dam	S.49. 6	301	
102	Design of Fill-type Dam			
103	Design of Fill-type Dam			
106	Design of Structures	S.50. 5	43	
711	J I S		120	
V. Related Subjects				
701	Engineering Geology	S.47. 7	46	
702	Programming Techniques of Computer	S.47. 7	68	
707	Diagnosis and Improvement of Saline and Alkali Soils	S.52. 9	158	
708	Technical Dictionary on Irrigation and Drainage	S.52. 3	450	
709	Soil Surveying in Tropical Areas	S.51. 4	86	
712	SURVEY PRACTICE	S.57. 4	40	
713	Meteorological Observation	S.57.10	37	
804	Water Resources Problems in Asia	S.50.12	83	
901	Technical Affairs on Irrigation and Drainage in the Respective Countries	S.57.11	348	
	in 1982			



JICA