3-2 Study and Examination on Design Criteria

(1) Selection of the VCR Format

The VCR format becomes a major determinant of the video grade. To ensure the grade of the broadcasting level, requested in this project are the high cost-performance 1/2" VCRs of broadcasting standard and the beta-cam SP format. There is also the M-II format of the same grade. While the beta-cam SP format is the main format today in the Japanese broadcasting industry, ever since development of digital VCRs in the recent years, it is gradually being replaced. In this sense, it can be said a format one generation ago. In Pakistan, the PTV and ETV which are national TV stations as well as the one private broadcasting station have introduced beta-cam SP and this is the main format.

The IET studio comprises an independent production facility. Because technically, formats beta-cam SP or better can fully ensure the video grade for such studio, except for the recording VCR used in the final stage of post-production necessary in supplying video sources to ETV, it can be said that there is no necessity to limit the format. However, since all of Pakistan's broadcasting stations are operating based on the beta-cam SP format, when consideration is given to the advantages of more effective studio operation after execution of this project such as mutual technical cooperation with ETV, support in the area of maintenance and leasing of source images in the area of production, it is desirable that the system entirely be unified with the beta-cam SP format and this is judged to be in meeting with the country's present state without any prejudice.

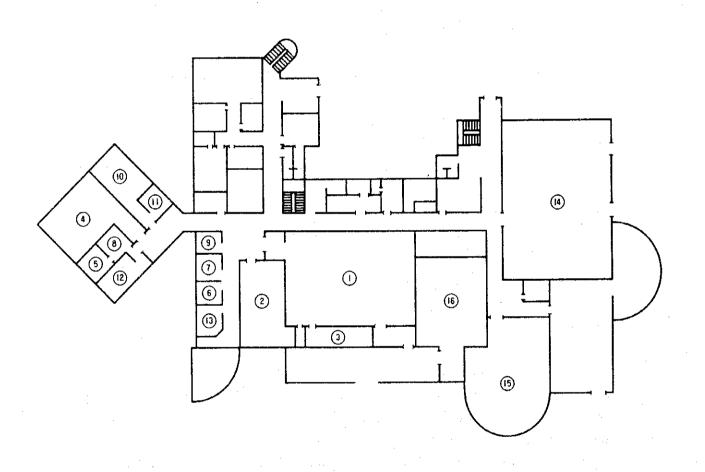
(2) Specifications of TV Cameras

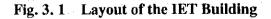
The Request had initially planned to use portable cameras as main studio cameras. However, during the field survey, the request was changed to that for specifications of a full-scale studio camera. This will mean rise in the camera grade by one rank which will require grade increase of the lens, pedestals and other related equipment. However, when consideration is given to the fact that while this studio is an independent studio for producing educational software, the programmes are produced for the objective of supplying them to broadcasting stations for transmission, it is necessary to ensure the compatibility with the video grade of the programmes produced by the stations. Also, since the studio camera excels in handling and stability, it is an appropriate choice when examined from the technical standpoint.

3-3 Basic Plan

3-3-1 Site and Layout Plan

The IET building where the equipment will be installed is shown on the Fig. 3.1, and location of the major equipment is identified in the Table 3.1. The layout plan of the equipment, except for the outdoor coverage car and the field production car, is as shown on the Fig. 3.2.





	Room	Area(m ²)	Major Equipment
1	RutioA	2082	Sturio Camera, Moritors, Mc.Boom Stard, Lighing Equipment, Cartain, etc.
	Central Apparatus Room		Hying Spot Scanner, Character Generator, Video Production Equipment, Audio Production Equipment, VCRs, Monitors, Rack & Console, Sync Signal Generator, Pulse Distribution Amplifier, etc.
	Dimmer Room (CAMERA STORE)	29,3	Dimmers, Dimmers*
4	Post Production Statio	71.2	VCRs, Editor, Vicko Production Equipment Auxilo Production Equipment, Monitors, Telecine Chain, Rack & Console, etc.
5	Annaunce Booth	67	Amounter Desk, Mic. & Stand, VCRs, Monitors, etc.
6	Editing Room 1	13.9	Editing Control Unit (Single Step)
7	Editing Room 2	13.9	Riting Control Unit (Single Step)
8	Editing Room3	67	Editing Control Unit (Single Step)
9	Video Ditbing Room	14.6	Video Duplicator*
10	Radio Studio	40.5	Mc. & Stand, Studio Monitors, etc.
11	Radio Control Room	27.6	Audio Maxer, Multitrack Tape Recorder, Audio Production Equipment ** Studio Monitors, etc.
12	Autio Dathing Room	20.1	Hgh Speed Duplicator**, etc.
13	Maintenance Room	14.2	Measuing Equipment, Tools**
14	Auditorium	285.	Video Projector, Autio System
15	Council Hall	ļ	Video Projector, Conference System, Mc.
16	Sturio Band Control Room	104.0	Studio Cameras*, Video/Audio Production Equipment*, Monitors*, Lighting
			Equipment*

Table 3.1 Location of the Major Equipment

* Denctes the existing equipment.

** Denotes the use of existing and new equipment in parallel or in joint.

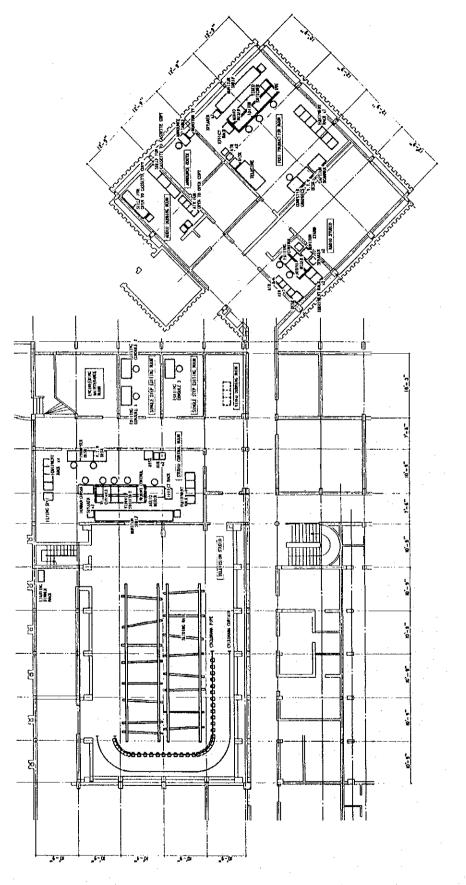


Fig. 3. 2 Equipment Layout Plan

3-3-2 Equipment Plan

From the viewpoint of the study and consideration on the request mentioned in the clause 2–2, and in consideration also of design policy and examination on design criteria as above, the equipment plan is formulated as follows;

The block diagrams related to the equipment above are shown on the Fig. 3.3 to 3.12 system-wise;

			Q'ty	1
	STUDIO			<u></u>
A.1	· · · · · · · · · · · · · · · · · · ·	mera Chain with CCU	4	sets
	A.1.1	Three–Chip CCD	4	sets
		(Studio Grade Cameras)		
	A.1.2	200mm Lens 14x	4	sets
Ĺ	A.1.3	Cam Head & Pedestal	4	sets
	A.1.4	Camera Cable	4	sets
	A.1.5	Test Chart Set	4	sets
	A.1.6	Telepromper	2	sets
	A.1.7	CCU	4	sets
A.2	Flyingspot	t Scanner (2 channels)	2	sets
A.3		Generator (English)	1	set
A.4	Video Pro	duction Equipment	1	set
Γ	A.4.1	Video Production Switcher	1	set
	A	Production Switcher	1	
	В	Mix-Keyer	2	
ľ	С	Downstream Keyer	1	
Ì	D	BB/BC Generator	1	
	E	Title Key Generator	1	
	F	Wipe Pattern Generator	2	
Ì	G	Chromakey Generator	1	
ľ	Н	Tally Logic Panel		
ļ	I	D.V.M.E. & Frame Store	1	set
Ì	A.4.2	Colour Stabilizing Amplifier		set
ľ	A.4.3	Video/Pulse Distributing Equipment	1	set
ľ	A.4.4	Video/Pulse Delay Line	1	set
	A.4.5	Cabinet Rack Assembly	1	set
	A.4.6	PD/Switcher Console	1	set
	A.4.7	VE Console	1	set
A.5		duction Equipment	1	lot
	A.5.1	Audio Mixing Console (with	1	set
		Graphic Equalizer)		
	A.5.2	Compact Disc Reproducer	1	set
İ	A.5.3	Disc Reproducer	<u> </u>	set
	A.5.4	Tape Recorder/Reproducer	2	sets
		(1/4" Reel to Reel 4 channel)		
	A.5.5	Cassette Tape Recorder/Reproducer	2	sets
	A.5.6	Microphone & Cable	1	lot
		Gun Microphone with Parabolic Reflecter	2	101
		Condenser Mic	2	
		Condenser Mic Switchable	2	
	-	Condenser Mic Lavalier	6	
		Dynamic Mic Uni–Directional	6	
		Printed Ribbon	.0	
		Mic Bi-Dierctional	2	<u> </u>
	A.5.7	Microphone Stands		lot
	,,,,,	Telescopic Mic Stand	4	101
		Goose-Neck Mic Stand		
			4	
		Boom Stand (Studio Booms) Boom Stand (Big)	2	

			Q'ty	/
A.6		Broadcast Standard		
	A.6.1	VCR with Time Code & TBC	3	sets
L	A.6.2	Waveform Monitor	1	set
	A.6.3	Vecterscope	1	set
	A.6.4	Colour Picture Monitor with Speaker	2	sets
	A.6.5	Bulk Tape Eraser	1	set
A.7	Monitoring	Equipment		
Γ	A.7.1	Video Production Monitor	· · · · · · · · · · · · · · · · · · ·	
.[A	14-inch Colour Picture Monitor	11	sets
Γ	В	20-inch Colour Picture Monitor	1	set
ſ	C	Monitor Shelf	1	set
Г	A.7.2	V. E. Monitor		
Г	A	9-inch Colour Picture Monitor	1	set
Г	В	Waveform Monitor	1	set
[C	Vectorscope	1	set
ſ	D	14-inch Colour Master Monitor	1	set
ľ	A.7.3	Studio Floor Monitor		
	A	20-inch Colour Picture Monitor	1	set
Ī	В	Audio Monitor Speaker with Amplifier	1	set
	С	Carriage	1	set
ŗ	A.7.4	Audio Monitor for Control Room		
Ì	A	Audio Monitor Speaker with Amplifier	1	set
	A.7.5	Ceiling Speaker for Studio Floor(TB)	1	set
ľ	A.7.6	Motorized/manual Curtains	1	set
1		Props System for Studio		
1	A.7.7	Cue Sign System(optical)	1	set
A.8		ercom Epuipment	1	set
A.9	Lighting E		1	lot
	A.9.1	Lighting Control System, Electric	1	set
		Dimmer with Memory Lighting Control		
	A.9.2	Lantern & Ancillerly Equipment	1	set
	A	1kW Spot Light	6	
	В	Standard 2kW Fresnel Spot Light	25	
	Ē	2kW Spot Light (LPS 20A)	3	
	D D	Profile Spot Light (1kW)	6	
	E	2kW Solo (CSI) Follow Spot Light	2	
	. –	with Stand		
	F	1kW Floor Light with Stand (LPS-10A)	4	
	G	Cyclorama/Back Light	. 8	
	Ŭ	(1kW Upper & Lower Horison)		
	H	Soft Light 1.25kW (SF 25F)	15	
	T	Spare Lamps for above lights	12	eact
	T	Light Effects Projector including	1	lot
	· ·	Spiral/Matt Effects Machine,		
		3-Objective Lenses Disc Plate/Disc		
		Matt/Endless films for various		
		effects such as Dark Clouds–Light		
		Clouds Thunder, Snow, Heavy Snow,		
		Rain, Heavy Rain Cherry Blossom,		
	1.4	\mathbf{K}	ſ	

			Q't	γ
		PPARATUS ROOM		
<u>B,1</u>		al Generator	2	sets
<u>B.2</u>		1 Generator	1	set
<u>B.3</u>		c/Manual Change Over Unit	1	set
<u> </u>		tribution Amplifier	6	lot
<u> </u>		stribution Amplifier	5	lot
<u>B.6</u>		ribution Amplifier	6	lot
<u>B.7</u>		se Delay Unit	3	lot
B.8	Rack Asse		1	set
<u>B.9</u>		ave Clock System & Logo Generator	1	set
B.10	Telecine (
L	B.10.1	Three CCD Colour Camera	1	set
Ļ	B.10.2	Optical Multiplexer	1	set
	B.10.3	16mm Film Projector	1	set
	B.10.4	35mm Slide Projector	1	set
	B.10.5	12-inch Picture Monitor	1	set
ļ	<u>B.10.6</u>	Waveform Monitor	1	set
	B.10.7	Trans Video 16mm/35mm	2	sets
B.11		stribution System (RF and Base Band)	1_	set
B .12		Room Communication (40 Rooms)	1	set
B.13	System C		<u>.</u>	
	B.13.1	System Convertor (2-way)	1	set
	B.13.2	1/2" Broadcast Standard VTR (NTSC)	1	set
		(Player & Recorder)		
	B.13.3	Routing Switcher	1	set
	B.13.4	Multi-system Picture Monitor	2	sets
		(9-inch Colour)		
	<u>B.13.5</u>	Multi-system VHS VCR	2	sets
	B.13.6	Rack Assembly	1	set
B.14	· · · · · · · · · · · · · · · · · · ·	nmunication System (2RX/TX)	1	set
B.15	the second s	eceiver with 6 Video Monitors	1	set
B.16		lour Printer	1	set
<u>C.</u> ED		OM (SINGLE STEP)		
C.1		c Editing Control Unit	3	sets
C.2		dcast Standard VCR with Time Code	6	sets
	& TBC			
C.3		Picture Monitor with Audio Speaker	6	sets
C.4	Console		3	sets
C.5		Ieadphone	3	sets
<u> </u>		UCTION STUDIO		
D.1	VCRs			
	D.1.1	1/2" Broadcast Standard VCR	. 3	sets
		(for A/B Roll Editing)		· · ·
	D.1.2	3/4" High Band U-matic VCR	. 1	set
	D.1.3	TBC for 3/4" VCR	1	set
	D.1.4	Time Code Generator/Reader	1	set
	D.1.5	TBC Remote Controller	4	sets
D.2	Editor			
	D.2.1	Automatic Editing Control Unit	. 1	set
	D,2.2	VCR Interface	4	sets
L	D.2.3	Switcher Interface	1	set

3 - 10

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			Q'ty
	D.2.4	Mixer Interface	<u>1 set</u>
F	D.2.5	CRT Display	<u>1 set</u>
h h	D.2.6	Editing Console	<u>1 set</u>
D.3	Video Prod	uction	
F	D.3.1	Video Production Switcher	<u>1 set</u>
Ì	A	Production Switcher	1
ſ	В	Mix Keyer	2
Ì	С	Downstream Keyer	1
ļ	D	BB/BC Generator	1
Ì	Е	Title Key Generator	2
ļ	F	Wipc Pattern Generator	2
	G	Chroma Keyer	1
Ì	D.3.2	Digital Video Effect	<u>1 set</u>
Ì	D.3.3	Video Processing Amplifier	<u>1 set</u>
ļ	D.3.4	Video/Pulse Distribution Amplifier	<u>6 lot</u>
Ì	D,3.5	Video/Pulse Delay	<u>3 lot</u>
	D.3.6	Control Console	<u>1 set</u>
	D.3.7	Caption Scanner	<u>1 set</u>
	D.3.8	Video Typewriter	<u>1 set</u>
	D.3.9	Computer Graphic/Animator	<u>1 set</u>
D.4	Audio Pro		
	D.4.1	Audio Mixer (16 channels)	<u>1 set</u>
	D.4.2	Compact Disc Player	<u>1 set</u>
	D.4.3	Disc Player	. <u>1 set</u>
	D.4.4	Tape Recorder/Reproducer	2 sets
		(1/4" Reel to Reel)	2 sets
	D.4.5	Cassette Tape Recorder/Reproducer	<u>2 sets</u> 1 set
	D.4.6	Control Console	1 501
	D.4.7	Effector	1
	A	Digital Reverberator	1
	B	Graphic Equalizer	1
	C	Rack	
D.5	the second s		1 set
	D.5.1	20-inch Colour Master Monitor 20-inch Colour Picture Monitor	1
	D.5.2	14-inch Colour Picture Monitor	12 sets
	D,5.3	Waveform Monitor	1 set
	D.5.4		1 set
	D.5.5	Vector Scope Audio Monitor Speaker with Amplifier	2 set
	D.5.6	Monitor Switcher	1 set
	D.5.7	Monitor Shelf	1 set
- <u>-</u>	D.5.8		3 set
D.6	Rack Ass	OVERAGE EQUIPMENT	
<u>E.1</u>			· · · · · · · · · · · · · · · · · · ·
C. I	E.1.1	Three-Chip CCD Portable Camera	2 set
	E.1.1 E.1.2	Dockable 1/2" Broadcast SP VCR	2 set
	E.1.2 E.1.3	Zoom Lens 14x or 20x	2 set
	E.1.4	Tripod/Dolly	2 set
	E.1.4 E.1.5	Rechargeable Battery Pack	6 set
	E.1.6	Battery Charger	2 set
	E.1.0 E.1.7	AC Adaptor	2 set

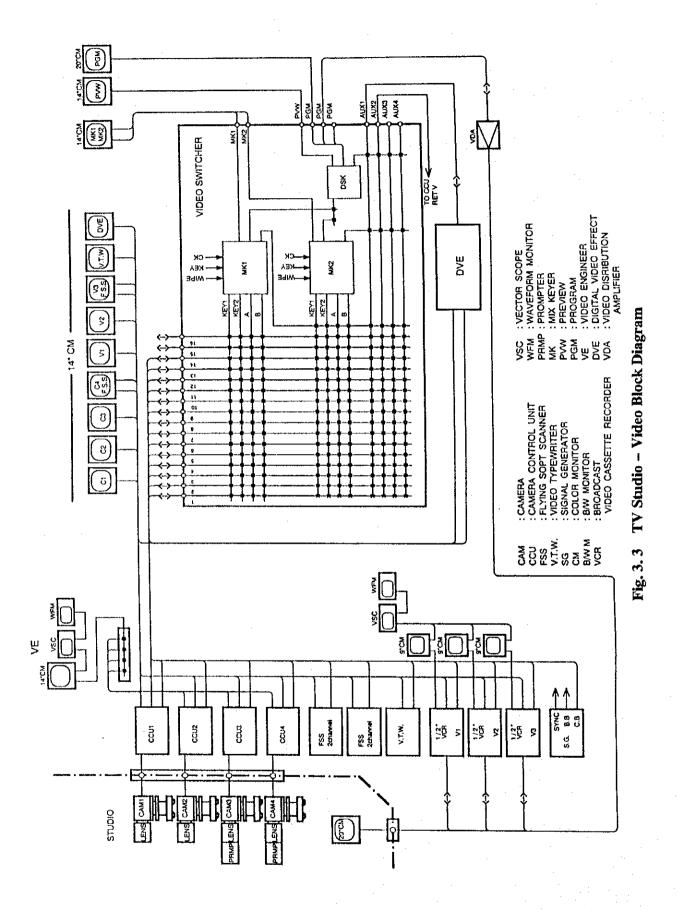
			Q't	<u>у</u>
	E.1.8	Carrying Case	2	sets
E.2	Audio Equ			
Ĩ	E.2.1	Portable Audio Mixer	2	sets
	E.2.2	Portable Tape Recorder	2	sets
ļ	E.2.3	AC Power Adaptor for Item E.2.1, E.2.2	4	sets
Ì	E.2.4	Shot-Gun Type Microphone	2	sets
Ē	E.2.5	Uni-directional Microphone	2	sets
ļ	E.2.6	Wireless Microphone	2	sets
1	E.2.7	Headphone	2	sets
	E.2.8	Hand Microphone Boom	2	sets
E.3	Monitor E			
2.0	E.3.1	9-inch Portable Colour Picture Monitor	3	sets
	E.3.2	Portable Waveform Monitor	2	sets
	E.3.3	Rechargeable Battery Pack	10	sets
	E.3.4	Battery Charger	2	sets
	E.3.5	VCR Play Back Adaptor	2	sets
E.4		Lighting Kit	2	sets
E.5		Coverage Car (Diesel Engine)	1	No.
E.6		Dimmer (4 channels)	1	set
		EQUIPMENT & TOOLS	*	
F 1	F.1.1	Oscilloscope with Cart	1	set
1.1	F.1.2	Vectorscope with Cart	1	set
	F.1.2B	Combined Wave Form/Vector Monitor	1	
	r,1.2D	(Portable Unit)		
	F.1.3	PAL TV Signal Generator	1	set
	1,1,7	with Sweep/Marker Generator	1	301
	F.1.4	Audio Distortion Meter	1	set
	F.1.4 F.1.5	Video Attenuator	1	set
	F.1.5 F.1.6	Audio Attenuator	1	set
	F.1.0 F.1.7	Illumination Meter	1	set
	F.1.7 F.1.8	Colour Meter	3	sets
	F.1.8 F.1.9	Electronic Voltmeter	2	sets
	F.1.9 F.1.10	Megger	1	set
	F.1.10 F.1.11	Digital ICs Tester	1	
	F.1.11 F.1.12	Digital Circuit Tester	2	set sets
			1	
	F.1.13	Am-meter Volt Meter	1	set set
	F.1.14 F.1.15		1	set
		Pal Measuring Set Earth Meter		
	F.1.16		12	set
	F.1.17	Stop Watch	5	sets
	F.1.18	Test Tape Set for 1/2" VCR		sets
	F.1.19	Test Tape Set for 3/4" VCR	$\frac{2}{2}$	sets
	F.1.20	Audio Test Tape Set for Open Reel Tape	2	sets
	F.1.21	Audio Test Tape Set for Cassette Tape	2	sets
	F.1.22	Variable Power Supply for AC	1	set
	F.1.23	Variable Power Supply for DC	1	set
	F.1.24	V.I.T.S Inserter	1	set
	F.1.25	Frequency Counter	<u> </u>	set
	F.1.26	Digital Logic Pulser Probe	2	sets
	F.1.27	EHT Probe	1	set
	F.1.28	Degaussing Coil	2	sets

			Q'ty	Y
F.2	Tools			
ļ	F.2.1	Hand Tool Set	3	sets
	F.2.2	Special Jig & Tools for Maintenance	2	sets
<u>G. INS</u>		ION MATERIALS	1	lot
		sary Material & Hardware for		
		on of Equipment/System/Project		
		the facility of smoke detector		
		rm system for studio & master control room		
	WER SUP		<u> </u>	
H.1	Distributi		3	sets
H.2		Transformer	2	sets
H.3	AVR		3	sets
. PRE		ON EQUIPMENT		
I.1	Colour V	ideo Projection (100-inch Screen)	2	sets
.	(1 set LC	D Single Beam Type)		
		СКТ Туре)		
1.2	20-inch	Colour Picture Monitor	6	sets
I.3	40-inch	Colour Picture Monitor	1	set
I.4	VHS VC	R	9	sets
I.5	Optical P	resentation Pannel	1	sets
1.6		c Print Board	4	sets
J. ELI	ECTRONI	C FIELD PRODUCTION CAR		
J .1	Colour C	amera Chain		
	J.1.1	Three-Chip CCD Portable Camera	3	sets
	J.1.2	Zoom Lens (14x2 Nos.), (33x1 No.)	3	sets
	J.1.3	Tripod Dolly	3.	sets
	J.1.4	Camera Control Units	3	sets
	J.1.5	Test Chart Set	3	sets
	J.1.6	Intercom	1	lot
J.2	Video Pr	oduction Equipment		
	J.2.1	Production Switcher	1	set
		with Digital Effects Unit		
	J.2.2	Sync Generator	1_	set
	J.2.3	Video Type-writer	1	set
J.3	Audio P	roduction Equipment		
	J.3.1	Audio Mixing Console (8 Channels)	· 1	set
	J.3.2	Tape Recorder/Reproducer	1	set
	J.3.3	Cassette Tape Reorder/Reproducer	1	set
	J.3.4	Microphones & Cables	1	set
	J.3.5	Microphone Stands	1	set
J.4	VCR 1/2	2" Broadcast Standard		
:	J.4.1	1/2" VCR with Time Code & TBC	2	sets
	J.4.2	Waveform Monitor	1	set
	J.4.3	Vectorscope	1	set
	J.4.4	Colour Picture Monitor with Speaker	1	set
J.5		ing Equipment		
	J.5.1	Colour Video Monitor	8	sets
	J.5.2	Audio Monitor	1	set
J .6		d Vehicle	1	set

LIST OF EQUIPMENT	1

100 p 100 p 100 p 100 p 150 p 150 p 1 sc	cs cs cs cs cs cs cs et et et et et et et s et o. Jos. Vo.
100 pe 100 pe 100 pe 100 pe 150 pe 150 pe 1 se 1 N 1 se 1 se 1 se 1 se 1 se 1 se	cs cs cs cs et et et et et ets ets Vo. Vos.
100 pe 100 pe 100 pe 100 pe 150 pe 150 pe 1 se 1 N 1 se 1 se 1 se 1 se 1 se 1 se	cs cs cs cs et et et et et ets ets Vo. Vos.
100 pc 100 pc 150 pc 150 pc 1 sc 1 sc 1 sc 1 sc 2 sc 1 sc 3 sc 1 n 2 n 1 n 2 n 1 n 2 n 1 sc 3 sc 1 sc	cs cs cs et et et et et ets et s vo. Vos.
100 p 150 p 150 p 1 sc 1 s	cs cs cs et et et et et ets ets Vo. Vos.
150 p 150 p 1 sc 1 sc	cs cs et et et et et ets ets Vo. Vos.
150 p 1 sc 1 sc 1 sc 1 sc 1 sc 1 sc 2 sc 1 sc 3 sc 1 N 2 N 1 N 2 N 1 Sc 1 s	cs et et et et ets ets ets Vo. Vos.
1 56 1 56 1 56 1 56 1 56 1 56 1 56 1 56 3 56 1 N 2 N 1 N 2 N 1 N 1 S 1 56 1 56	et et et et ets ets Vo. Vos.
1 \$6 1 \$6 1 \$6 1 \$6 2 \$6 1 \$6 3 \$6 1 $6 1\$6 1\$6 1\$6 1\$6 1\$6 1\$6 1\$6 1\$6 1	et et et ets ets ets No. Nos.
1 SG 1 SG 1 SG 2 SG 1 SG 3 SG 1 N 2 N 1 N 1 N 1 SG 1 SG	et et ets ets ets Vo.
1 so 1 so 2 so 1 so 3 so 1 N 2 N 1 N 1 So 1 so 1 so 1 so	et ets ets ets Vo. Vos.
1 S6 2 S6 1 S6 3 S6 1 N 2 N 1 N 1 S6 1 S6	et ets ets ets No. Nos.
1 S6 2 S6 1 S6 3 S6 1 N 2 N 1 N 1 S6 1 S6	et ets ets ets No. Nos.
2 SK 1 SG 3 SK 1 N 2 N 1 N 1 SK 1 SK 1 SK	ets et ets No. Nos.
1 SO 3 SO 1 N 2 N 1 N 1 SO 1 SO	et ets No. Nos.
3 so 1 N 2 N 1 N 1 So 1 so	ets No. Nos.
1 N 2 N 1 N 1 s 1 s	No. Nos.
2 N 1 N 1 s 1 s	los.
1 N 1 so 1 so	_
<u>1</u> 1 s	No.
1 s	
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	et
2 0	et
	ets
<u>3</u> s	ets
<u>1</u> s	et
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1 s	et
1 s	et
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1 s	et
1 s	set
1 s	set
	iets
2 s	sets
· · · · · ·	
2 s	sets
	lot
	set
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	set
12 1	Nos.
	$ \begin{array}{r} 1 & s \\ 2 & s \\ 4 & s \\ 4 & s \\ 4 & s \\ 1 & s \\ $

			Q'ty
L.16	1/2" VCR		1 set
L.17	14-inch (Colour Picture Monitor	1 set
L.18	High Spe	ed Duplicator	1 set
[L.18.1	1/4" Spool to Spool Copier 1 x 5	1 set
[L.18.2	1/4" Spool to Cassette Copier 1 x 25	1 set
	L.18.3	Cassette to Cassette Copier 1 x 50	1 set
A. SP.	ARE PAR'	ГS	1 lot
	Recommo	ended spare parts for 2 years operation.	



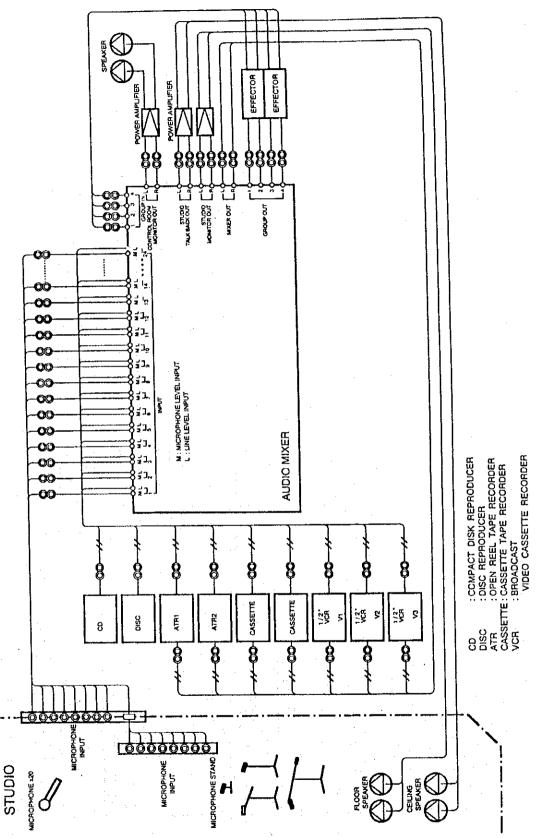


Fig. 3. 4 TV Studio - Audio Block Diagram

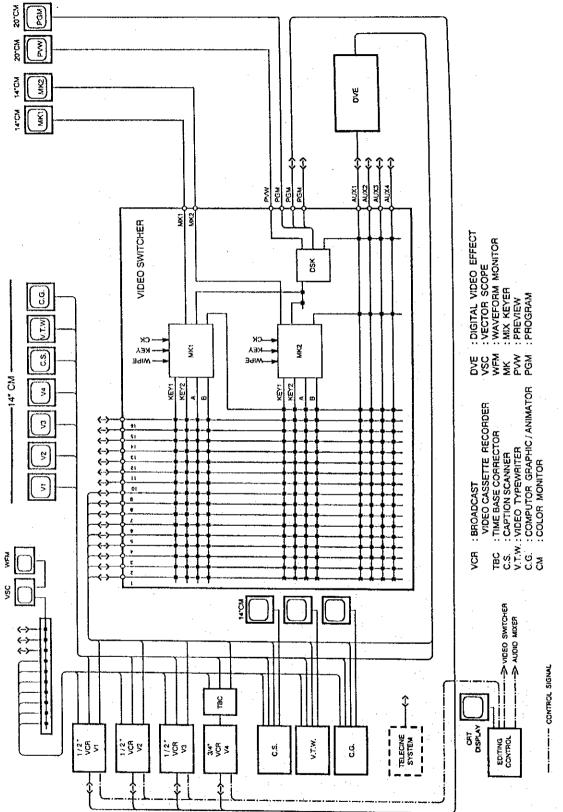


Fig. 3. 5 Post Production Studio - Video Block Diagram

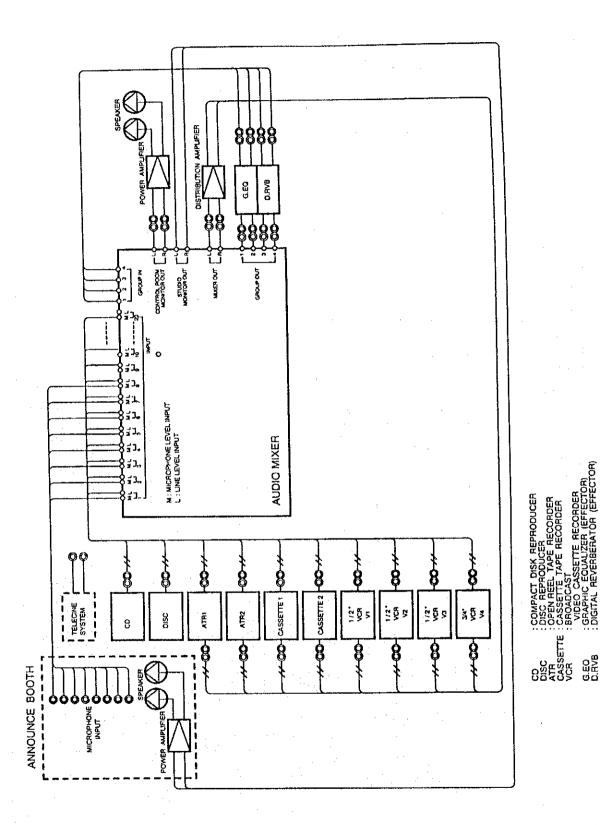
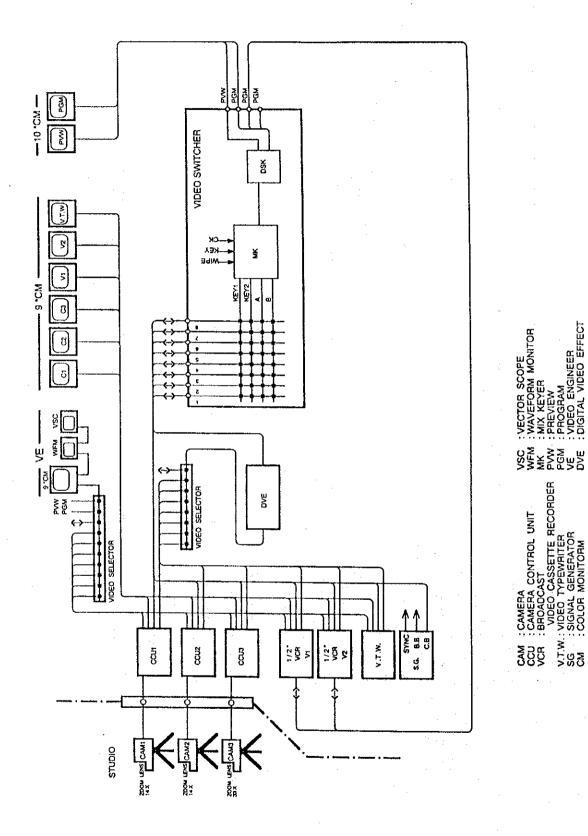
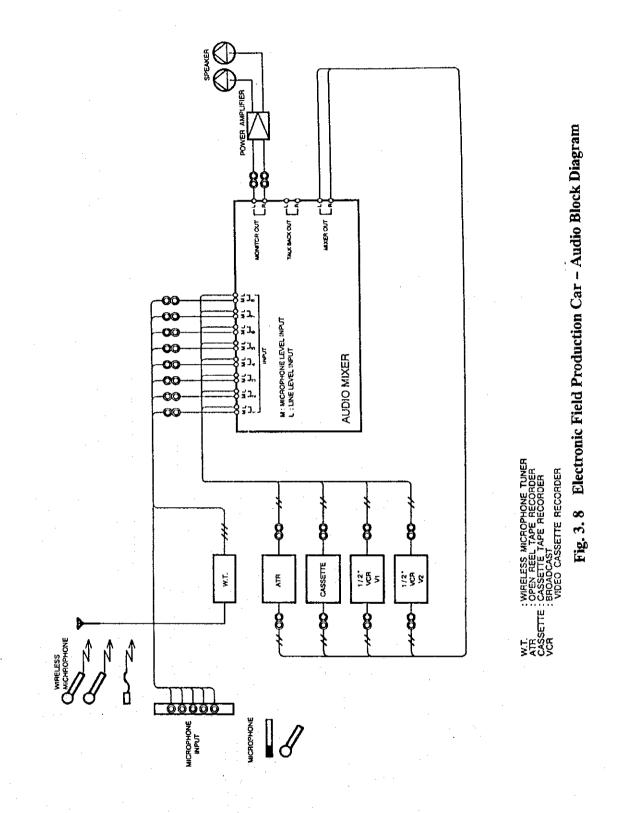
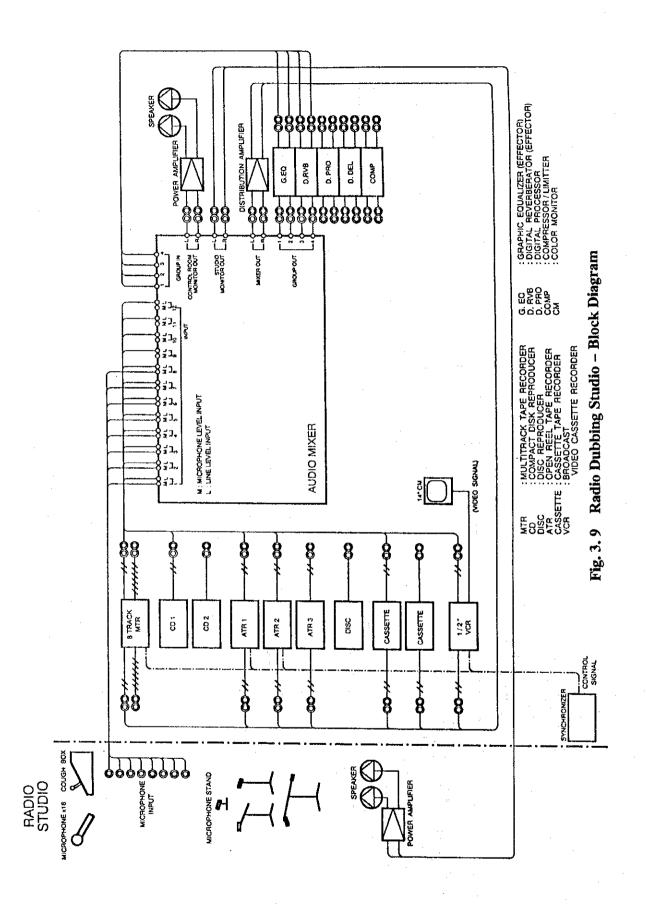


Fig. 3, 6 Post Production Studio - Audio Block Diagram



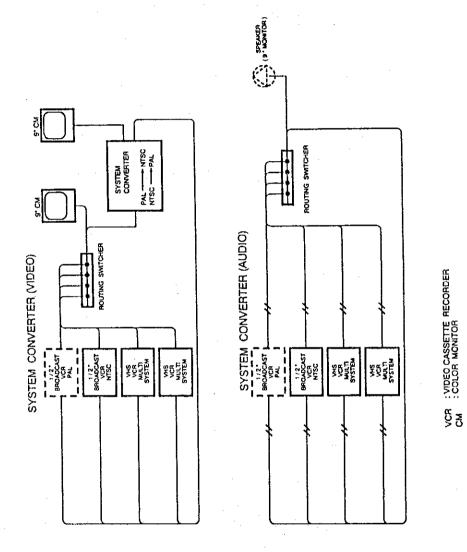






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3 – 23

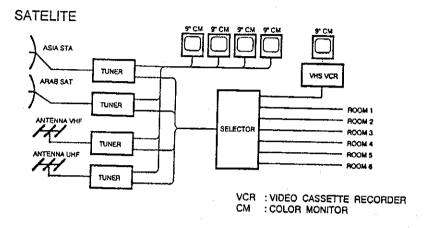


Fig. 3. 11 Satellite Block Diagram

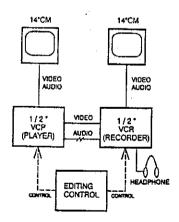


Fig. 3. 12 Single Step Editing Block Diagram

3-4 Implementation Plan

3-4-1 Implementation Method

This project is meant to provide equipment to AIOU/IET through the grant aid assistance of the Government of Japan. The AIOU which is the project's executing agency is to sign a contract with a Japanese consultant and have it assist the AIOU and the IET to carry out such works as detailed design, preparation of tender documents, tender evaluation and supervision of the execution of the works for installation of the equipment. The AIOU will also sign contracts with a Japanese contractor, and the contractor is expected to supply and install the equipment and provide guidance on their operation and maintenance. The installation is to be carried out by utilising the local labour force under guidance by electricians or other engineers and technicians of the contractor from opening of the packages to installation of the equipment on the designated locations, and the subsequent wiring, etc. which require certain skill, are to be carried out by the electricians of the contractor. The adjustment, test runs and guidance on operation and maintenance are to be carried out by electronics engineers. The implementation system at the time of execution is as shown in the diagram below.

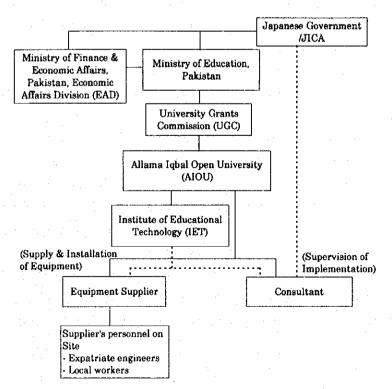


Fig. 3. 13 Project Implementation System

3-4-2 Points to be Considered during Implementation

This project is basically designed to replace existing equipment. The works for moving the existing equipment are to be carried out by the Pakistan side and the budget for this is also to be appropriated by the Pakistan side. However, the IET is currently producing video teaching aids, etc. and its operations will be suspended from the time of start of removal of the existing equipment to transfer of the provided equipment. It is therefore necessary to give consideration to minimise the disadvantages and inconveniences caused to the Pakistan side due to the suspension of operations.

When it is necessary to connect the provided equipment with a part of the existing equipment, such things as influence of the connection cords must mainly be adjusted on the site. For this reason, it will be necessary for the contractor to carry out the installation and adjustment with such a system that it can fully cope on the site.

3-4-3 Plan for Supervision of Implementation

Based on the system and policy of the Government of Japan on its grant aid assistance as well as on the agreement on the consultancy services, and based on the purport of the basic design, the consultant shall accomplish this project until completion by organising a project team regarding detailed design and the supervision on the tendering phase and implementation phase. In the phase of detailed design, a team of consultant's representatives will assist the Pakistan side to prepare technical specifications and other tender documents. In the phase of tendering, the consultant will assist the Pakistan side in every procedure related to the tender including tender call, delivery of documents, evaluation of the tender, and conclusion of the equipment supply contract with the successful tenderer. In the phase of project implementation, it is necessary to correctly and smoothly promote the execution by having engineers be present at the time of the pre-shipment inspection at the factory or warehouse, installation and taking-over on site. It will also be necessary for the consultant to make adjustments so that the processes of the works for moving the existing equipment carried out by the Pakistan side and the works by the contractor to install the provided equipment should not interfere with each other. During installation, acceptance and taking-over, consultant's representatives will be assigned to supervise the contractor's work on site.

3-4-4 Equipment Procurement Plan

(1) Procurement Method

At present, only Japanese makers are manufacturing 1/2" component VCRs. Regarding other major equipment also, Japanese products have most of the market share. However, there are also areas such as of pedestals, audio speakers and computer graphics equipment in which US and European products are very excellent. At any rate, there are no makers which are manufacturing all of the requested equipment. When using thirdcountry products such as US or European, required will be engineering of capturing everything as a system such as by adjusting the interface between equipment. Therefore, even if some US or European products are to be included, it is assumed that the entire equipment will be procured in Japan as a system. The following items of equipment however are to be procured locally.

A) Satellite broadcast reception antenna and tuner

These items of equipment become necessary when using the satellite broadcast programmes of ASIASAT and ARABSAT which can be received in Pakistan as source materials. Required are products satisfying the local standards.

B) Scripting equipment

Since the main personal computer is not going to be connected with the system of the main requested equipment, it is not necessary that it be procured in Japan. The computers manufactured and sold in Japan come with keyboards, ROMs, etc., designed for the Japanese language but this function is not needed in this project. Although not produced locally, when consideration is given to the possibility of later upgrades such as in terms of hard disk capacity, desirable is to procure these items of equipment through local dealers. Regarding software also, those in the Urdu or other local languages can only locally be procured. Regarding copiers, daily maintenance is particularly important. Although they are not locally produced, it is desirable to procure them through local dealers and receive the maintenance service locally.

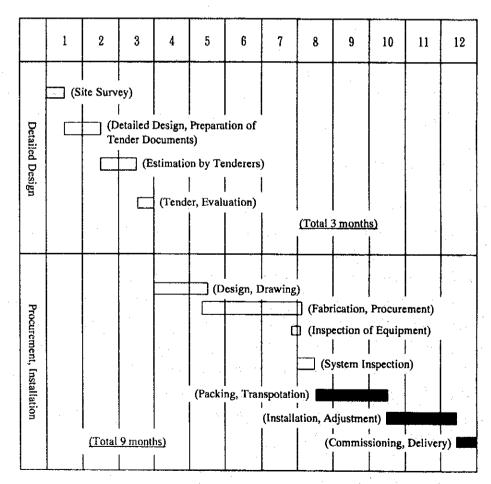
When the above items of equipment are locally procured, import duties, provincial tax (Octroi) and federal government tax of a total of around 35-40%

will be levied (the tax rates change every year). It is required that these taxes need to be exempted when the contractor procures these items in Pakistan.

(2) Transportation Method

The container transport system should be used in ocean and local inland transport in reducing the transportation period and protecting the cargo. While the cargo should be landed at Karachi port, it is convenient to clear the customs at the dry port in the city of Rawalpindi adjacent to Islamabad. This is also desirable in reducing the time taken in clearing the customs.

3–4–5 Implementation Schedule



The implementation schedule of this project is as shown in Fig. 3.14;



3-4-6 Scope of Works

(1) Pakistan side: (To take up the following wherever necessary.)

- 1) Interior works of the building and relocation works for the existing equipment;
- 2) Electric works for receiving, transforming and distribution of electric power (excluding distribution boards, isolation transformers and AVRs);
- Electric lighting works (excluding studio lighting equipment and portable lighting kit);
- Telephone and communication facility works (excluding studio intercom and VHF communication system);
- 5) Procurement of fixtures and furnishings (excluding racks and console specially designed for the project-related equipment);
- 6) To ensure prompt unloading, exempt taxes, and take necessary measures for custom's clearance at port of disembarkation and inland transportation in Pakistan of the equipment provided under the grant aid, and bear all expenses for going through formalities;
- 7) To exempt Japanese nationals (both physical and juridical) from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
- 8) To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement;
- 9) To accord Japanese nationals whose services may be required in connection with the supply of products and services under the verified contract such facilities as may be necessary for their entry into Pakistan and stay therein for the performance of their work;

10) To maintain and use properly the equipment purchased under the grant aid;

- 11) To bear all the expenses other than those to be borne by the grant aid, necessary for the execution of the project;
- 12) To take measures of permission and sanction necessary for execution of the project.

(2) Japanese side:

- 1) Procurement of equipment and materials, and transportation and installation related thereto;
- 2) Electrical wiring work from the installed equipment to the plug socket (however, the plug socket is supposed to be installed close to the equipment installed and the wiring work from the power source to the plug socket shall be done by the Pakistan side);
- Execution of test operation and adjustment of equipment, guidance on operation and maintenance;
- 4) Consulting services including preparation of tender documents, management of tendering and supervision of project implementation.

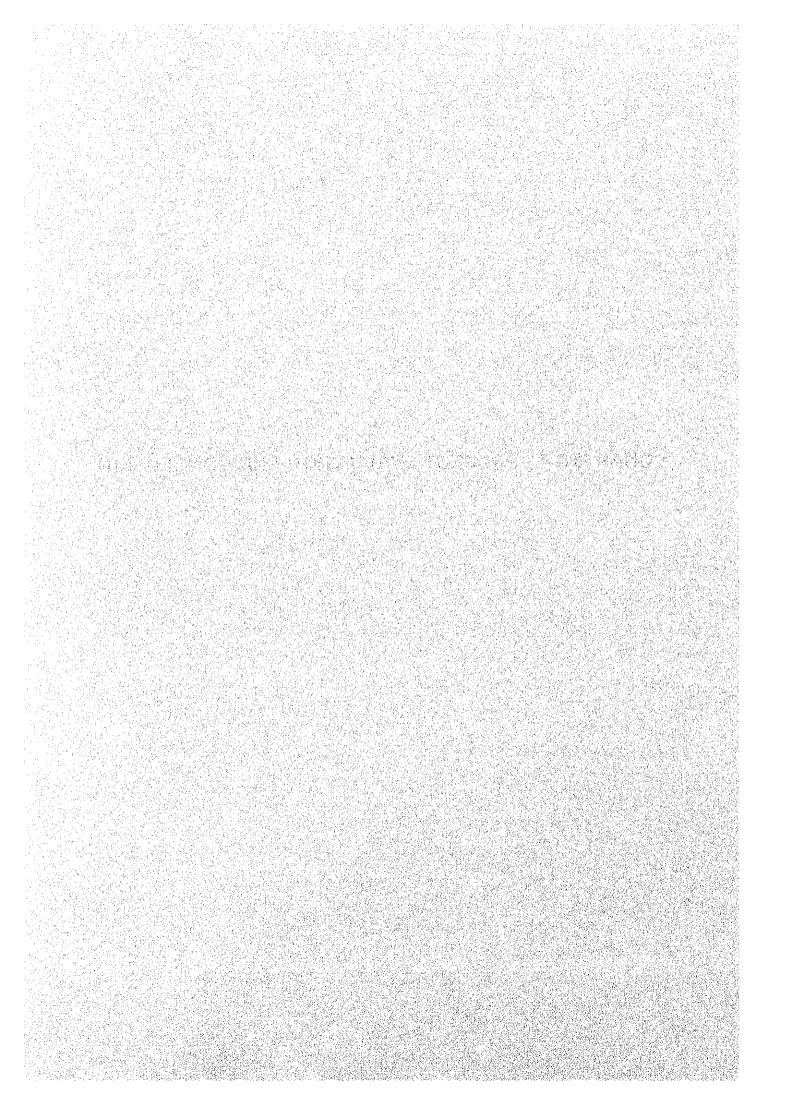
3-4-7 Costs for the Pakistan Side

The costs of the works to be borne by the Pakistan side will be about 2 million rupees in total. The works include the following:

- Removal of partitions in the studio control room;
- Removal of existing equipment;
- Lighting and control works for sub studio;
- Civil and other related works for the main and sub studios.

Breakdown of the costs are as shown in the Appendix-6.

CHAPTER 4 PROJECT EVALUATION AND CONCLUSION



Chapter 4 Project Evaluation and Conclusion

4–1 Project Evaluation

The Government of Pakistan recognises the necessity of concentrating its energies on education of the people as a fundamental human right, as well as the development of human resources as the basis of economic development. From the standpoint that it is important to spread basic education among the people in order to solve problems in the education sector represented by low literacy rate, low participation rate, high dropout rate, etc., the Government has placed emphasis especially on the promotion of universal primary education in the formal education sector and, to supplement this, has decided adult education such as literacy education, women's education, teacher education, functional education, etc. in the non-formal sector as important tasks of its educational development programme. Also, the Government realises that the role of education sector to accomplish indirectly in social development by raising the overall level of education is extremely significant.

Under the circumstances, the following effects can be expected if this project is implemented by a grant aid of Japan. Namely, it will be possible to improve overall living standards as well as to expand opportunities to participate in the society by providing basic literacy education to adults who are not able to read. Living standards of farmers, who occupy the largest segment of the population, will be improved by disseminating the knowledge related to new agricultural technologies, mechanised agriculture, diversification of farm produce, distribution system, etc., and, in addition, the effect can be expected to push up the overall GNP of Pakistan through the increase of productivity in the farming sector. Social effects such as improvement of the status of women, expansion of opportunities to participate in the society, decrease of infant mortality rate, etc., can be expected by conducting education on population, health and hygiene, homemaking skills (sewing, food processing, etc.), and household management as well as providing the opportunity for general elementary and secondary education to a great many women of all ages who are exclusively engaged in domestic labour in rural areas. It is possible to improve production technology and enhance awareness of labour health and hygiene of juvenile labourers who are engaged in work without attending school, illiterate adults and labourers who have no experience in attending school or have dropped out, by conducting basic education on vocational skills utilising audio-visual teaching materials in their local language. Thus not only an effect in the aspect of social security but also the economic effects due to production expansion can be expected. Especially, it is possible to improve teaching methods and strengthen leadership of teachers and contribute to the increase of the participation rate and decrease of dropout rate by

4 – 1

providing an opportunity for teacher training to uncertified teachers who have been employed in order to cope with the lack of teachers for primary education or teachers who have not received regular training for teaching. Also, the expansion of educational opportunities for women can be expected especially by bringing licensed female teachers to maturity. Furthermore, it is possible to provide the feeling of satisfaction of being prepared to get a job and lifetime education by means of general education(intermediate, bachelor, master, etc.), and to meet the broad needs of the nation.

AIOU, the only university conducting distance education in Pakistan as a means to promote these various kinds of education, assumes a very important role. If this project which provides its IET with the equipment to produce audio-visual teaching materials is implemented, the concrete effects shown in Table 4.1 can be expected.

Table 4.1Effects to be Obtained by Implementation of the Project and Degree ofImprovement of the Status Quo

S	Status Quo and Points at Issue	Measures in the Project	Effects of the Project and Degree
1)	Both literacy rate and	To expand production capacity of	of Improvement It is possible to disseminate
-,	participation rate of primary	audio-visual educational	basic education as a fundamenta
	school are very low in	programmes for distance education	human right by providing
	Pakistan, with 36.8% and	pertaining to literacy education,	educational opportunities, on a
	70.8% respectively. The	women's education, teacher	nation-wide scale, to those
	expansion of educational	education, etc. of AIOU and IET.	considered weak by society such
	opportunities for all the nation		as school-age child labourers,
	as a fundamental human right		women in rural areas and adults
	is the most urgent task.		who never attended school.
2)	No effort has been made to	To provide IET with production	It is possible to expand
,	equalise educational	equipment for teaching materials	educational opportunities also ir
	opportunities geographically as	having technical compatibility with	remote areas and outlying
	evidenced in the small number	broadcasting equipment of ETV so	regions by utilising facilities of
	of and regionally unevenly	that the latter will be able to	broadcast and relay stations
	distributed educational	broadcast audio-visual teaching	which have been provided under
	facilities and so on. There has	materials all over the country	the separate coverage of grant
	been no progress, therefore, in	through its nation-wide	aid assistance of Japan and have
	the expansion of human	transmission network.	95% population coverage.
	resources to support well	4	•
	balanced economic		
	development in regions.		
3)	Fifteen years have elapsed	To provide IET with equipment to	By the introduction of
-,	since the installation of IET's	meet the demands of the times and	equipment with less maintenance
	existing equipment and it is	cope with comparatively new	problems and high operational
	outdated and superannuated.	technology from the viewpoint of	capability, it is possible to
	From the viewpoint of video	easy maintenance and ready	continuously provide high
	technology, grade of these	availability of spare parts, etc.	quality teaching materials and
	equipment is 4 to 5 generations		expect direct beneficial effects
(·	older. Thus the grade of video		such as to attract the desire for
	image is low and economic		further study of about 140,000
	efficiency of operation is poor.		students currently enrolled with
1			the AIOU.
4)	IET's production equipment for	To provide the IET with types and	Production capacity of video
	video educational programmes	quantity of equipment to be able to	programmes will be increased
	was provided as studio	sufficiently produce audio-visual	from 50 a year to about 100 an
	equipment on a pilot scale by	teaching materials which are	audio programmes from 100 to
	the technical cooperation of	planned in compliance with the	about 400, and the expansion o
	UNDP and there is a limitation	needs of society towards the	educational opportunities for a
	in the production capacity of	distance education.	segments of the population is
	audio-visual teaching		expected.
	materials.		

4-2 Conclusion

AIOU's educational activities are largely divided into teacher training , functional training , general education , special programmes , and AIOU implements them on a nation-wide scale utilising various media. Beneficiaries of these various kinds of education are adults who have never attended school (both men and women), those considered weak by society such as juvenile labourers and uncertified teachers, etc., and the number of direct beneficiaries are about 140,000 enrolled students. However, those who will benefit can be expected on a nation-wide scale if the ripple effect on the formal education sector by teachers who received teacher training, especially the expansion of educational opportunities of women due to the increase of female teachers, and the spread of educational effects to children through the education of the housewives are taken into consideration. Also, these educational activities will, as mentioned before, contribute to the improvement of living standards and social stability as well as securing of educational opportunities as a fundamental human right of the people.

Also, it is obvious from the preceding chapters that the condition of maintenance and management of the production equipment of teaching aids being used in IET at present is considerably good even after 15 years of its initial installation; that the technical capability of IET engineering staff is reliable; that there is a plan to newly increase sufficient technical staff as a measure when the equipment of the project is installed; and that AIOU has ample budgetary background to appropriate sufficient budget to operate, maintain and manage this project.

Furthermore, this project has high priority in the long and medium – term national development plans of Pakistan such as Perspective Plan (1993–2008), Eighth Five Year Plan (1993–1998), etc. and its implementation is concretely desired in the long-term National Education Policy (1992–2002). It is obvious that the project will greatly contribute to the achievement of the targets of the educational sector in the country.

Although the profitability of this project is not high, some production fee income can be expected by receiving contracts from the Ministry of Education for the production of educational programmes for formal education sector. Also, tuition from students is a comparatively high self-earned income source for AIOU. However, these incomes are basically being appropriated for the operational cost of AIOU/IET, maintenance and management expenses of equipment, etc. Also, implementation of this project does not have any adverse effects on the environment. The term of implementation of this project is

estimated as 12 months after the Exchange of Notes.

Judging synthetically from the above, it is considered to be appropriate to implement this project to renew the equipment of AIOU/IET which is exclusively undertaking the production of audio-visual teaching aids for distance education in Pakistan with a grant aid assistance of the Government of Japan.

4-3 Proposals

The appropriateness of implementing this project with a grant aid is confirmed since great effects are expected as mentioned above by the implementation of the project and, at the same time, it will contribute widely to the improvement of the basic human needs of the people of Pakistan. Also, it is considered that there will be no problem in the operation and management of the project since the related organisations on the Pakistan side has sufficient manpower and budgetary resources. However, if the following points are improved and provided, the project will be implemented more smoothly and effectively.

(1) Tasks

Among audio-visual aids to be produced by the IET using projected equipment, video programmes will be broadcast all over the country through ETV and audio programmes through PBC. Since the production equipment to be used for video programmes in the IET is of a new grade by four to five generations from the viewpoint of video technology, ETV's assistance to IET in terms of latest technology on equipment operation, maintenance, management, etc. is indispensable. Also, it is desirable to further increase the transmission hours for broadcasting of educational programmes in the future in conformity with the educational policy. In this point, it will be necessary for the Ministry of Education, which is the supervisory ministry of this project, assumes the responsibility to co-ordinate closely with ETV and the Ministry of Information and Broadcasting, which is the supervisory ministry of ETV.

Further, when this project is implemented, renewal of the technology of IET personnel is considered indispensable. On the other hand, it is necessary to improve the delivery system of teaching materials at AIOU headquarters, and, in addition, to reinforce the regional service network in a parallel manner and to try to expand the educational opportunities of students. In these points, the self-help endeavour of the Pakistan side is imperative.

(2) Proposals

1) Technical Training

As is described in the clause 2–4, it is desirable to provide training to renew the technical skills of the IET staff in the relevant facilities of the manufacturers supplying the equipment in accordance with this project.

2) Reinforcement of Regional Services

From the results of a hearing conducted at a regional campus in the city of Peshawar visited for an on-site survey, it was observed that the regional services in relation with the distance education has not necessarily been achieved to the full extent at the local level. In the case of distance education, reinforcement of the function of campuses, offices and study centres which are placed in each area in the country is considered to be indispensable for its expansion, since it is a form of education where the teaching side approaches to the place of daily life of students as close as possible, which is different from formal education where students to be taught attend a certain school. It is proposed, therefore, that the following plans to reinforce the regional service network are formulated by the Pakistan side in order to make the project more effective.

A) Provision of equipment and programmes in regional study centres

The current situation of educational equipment in regional campuses, regional offices and study centres varies and it cannot be said that sufficient equipment and audio-visual teaching aids have been provided. Necessary equipment and teaching aids are provided to all schoolrooms where students are directly taught by a tutor.

B) Provision of mobile audio-visual schoolrooms

Regional study centres are newly opened or closed depending on the number of students and contents of study courses. From the viewpoint of providing equal educational opportunities to the whole nation, one audio-visual car (vehicle for mobile education mounting monitors, VCRs, audio equipment,

etc.), is distributed to each regional campus in each province.

4 - 7



Appendix-1 Members of the Basic Design Study Team

Mr. Senichi Kimura	Team Leader
	Deputy Director, Second Basic Design Study Div.,
	Grant Aid Study and Design Dept.
	Japan International Cooperation Agency
Miss Reiko Akezumi	Project Coordination
	Second Basic Design Study Div.,
	Grant Aid Study and Design Dept.
	Japan International Cooperation Agency
Mr. Mutsuharu Nakajima	Grant Aid Programme
	Grant Aid Div., Economic Cooperation Burcau
	Ministry of Foreign Affairs
Prof. Toshio Kobayashi	Distance Education Planning
	National Institute of Multimedia Education (NIME)
	Ministry of Education, Culture and Science
Mr. Wataru Shiga	Project Manager of the Consultants
	UNICO International Corporation
Mr. Shuhei Kubota	Production Equipment Planning
	UNICO International Corporation
Mr. Katsuhiko Higuchi	Studio Facilities Planning
C C	Cost Estimation
	UNICO International Corporation

A-1-1

Appendix-2 Schedule of Field Survey

(December 11 - 31, 1994)

,	Dec	ember		
1.	11	Sun.	Lv. Tokyo (Messrs. Kimura and Kobayashi, Miss A Messrs. Shiga, Kubota and Higuchi) Ar. Lahore	Akezumi,
2.	12	Mon.	Lv. Lahore Ar. Islamabad Schedule Meeting at JICA Pakistan Of Courtesy call on the Japanese Embassy Courtesy call on EAD Courtesy call on MOE	
3.	13	Tue.	Courtesy call on AIOU/IET, and Surve Courtesy call on UGC Courtesy call on the British Embassy,	
4.	14	Wed.	Meeting with IET (Explanation along an Inception Repor Courtesy call on the British Council, an	
5.	15	Thu.	Lv. Islamabad Ar. Peshawar Survey of AIOU Regional Office, Interv	view
6.	16	Fri.	Lv. Peshawar Ar. Islamabad	
7.	17	Sat.	Meeting with IET (Explanation along the Inception Repo Mr. Nakajima joins the party.	ort, Discussion)
8.	18	Sun.	Mr. Nakajima reports his arrival to the Japanese Embassy and JICA. Courtesy call on EAD and MOE	Other members Meeting with IET (Discussion continued.)
9.	19	Mon.	Meeting with IET (Discussion continued.)	
			A-2-1	

10.	20	Tue.	Meeting with IET for Minutes of Dis	scussions
11,	21	Wed.	Signing the Minutes of Discussions h	•
			Signing the Minutes of Discussions h	by MOE
12.	22	Thu.	Government Officials	Consultants
			Lv. Islamabad	Meeting with IET for
				specifications for Equipment
				Field Survey
13.	23	Fri.	Government Officials	Data Arrangement
			Ar. Tokyo	Internal Meeting
14.	34	Sat.	Consultants	
			Meeting with IET for specifications	for Equipment
15.	25	Sun.	Data Arrangement	
16.	26	Mon.	Meeting with IET for specifications	for Equipment
			Field Survey	
17,	27	Tue.	Meeting with IET for specifications	for Equipment
			Field Survey	
18.	28	Wed.	Reporting meeting results to Japane	ese Embassy and JICA.
19.	29	Thu.	Lv. Islamabad Ar. Karachi	
20.	30	Fri.	Lv. Karachi Via Bangkok	
21.	91	Sat	An Takua	$\gamma_{\rm m}$ is the set of the set
۲۲.	91	Sat.	Ar. Tokyo	

A-2-2

Appendix-3 List of Interviewed Personnel

The Ministry of Education

Dr. Abdul Aziz Khan Mr. A. D. Khan Mr. Bashir Ahmad Chaudhry

The Economic Affairs Division Mr. Shahid Humayun Deputy Educational Adviser Assistant Educational Adviser

Joint Educational Adviser

Deputy Secretary

<u>University Grants Commission</u> Mr. Saeed Ullah Shah

Adviser (Finance & Planning)

<u>Allama Iqbal Open University (AIOU)</u> Prof. Javed Iqbal Syed

Vice-chancellor

Institute of Educational Technology (IET) of AIOU

Mr. Amar Jaleel Kazi Mr. Javed M. Kasuri Mr. Abid Khwaja Mr. Mehmood Ali Dr. Naiem Ud Din Dr. Ejaz A. Qurcshi Mr. Mubarik Munir Mr. Mohammad Haroon

Director Deputy Director Deputy Director, Programmer Chief Engineer Senior Engineer Television Engineer Associate Engineer Chief Designer, Head Art & Design Dept.

AIOU Regional Office, Peshawar

Mr. Sayed Hussain Shah Mr. Mian Hidayat Ullah Miss AfLab Khattak Miss Safidu Ban Mr. Mohammad Zahin Mr. Nadar Khan Mr. Shad Khan Mr. Mohd. Darreesh Miss Rukhsana Nazneen

<u>The British Embassy</u> Mr. Jonathan Lingham Regional Director Assistant Regional Director Tutor Tutor Tutor Teacher (Tutor) Teacher (Tutor) Teacher (Tutor) Lecturer (Tutor)

First Secretary (Development)

A-3-1

The British Council

Mr. Michael Ward

<u>The Japanese Embassy</u> Mr. Tatsuaki Iwata Mr. Mitsuyoshi Nakata

JICA Pakistan Office

Mr. Akira Murata Mr. Noriaki Nishimiya Mr. Mahmood A. Jilani

Director, Development and Training Services

Minister The Second Secretary

A-3-2

Resident Representative Deputy Resident Representative Chief Programme Officer

Appendix-4 Minutes of Discussions

Minutes of Discussions on

the Basic Design Study of the Project for Strengthening of Equipment at the Institute of Educational Technology (IET) of Allama Iqbal Open University (AIOU) in

the Islamic Republic of Pakistan

In response to a request from the Government of the Islamic Republic of Pakistan, the Government of Japan has decided to conduct a Basic Design Study on the Project for Strengthening of Equipment at the Institute of Educational Technology (IET) in the Allama Iqbal Open University (AIOU) (hereinafter referred to as "the Project"), and entrusted the study to Japan International Cooperation Agency (JICA).

JICA sent to Pakistan a Basic Design Study Team headed by Mr. KIMURA Senichi, Deputy Director, Second Basic Design Study Division, Grant Aid Study and Design Department, JICA, and is scheduled to stay in the country from December 11 to December 31, 1994.

The team held discussions with the officials concerned of the Government of Pakistan and conducted a field survey at the study area.

As a result of discussions and field survey, both parties confirmed the main items described on the attached sheets.

Mr. KIMURÀ Senichi, Leader, Basic Design Study Team, JICA

Dr.Abdul Aziz Khan, Joint Educational Advisor, Ministry of Education, Pakistan

Islamabad, December 21,1994

Prof. Javed Iqbal Syed

Vice Chancellor, AIOU, Pakistan

Mr.Shahid Humayun, Deputy Secretary, Economic Affairs Division, Pakistan

A-4-1

ATTACHMENT

1. OBJECTIVE OF THE PROJECT

The objective of the Project is to facilitate programme production activities of IET, AIOU by upgrading the studio and/or audio-visual equipment of IET in order to enhance the quality of distance education implemented by AIOU.

2. PROJECT IMPLEMENTING AGENCY

Ministry of Education is to be the overall Responsible Agency and the Allama Iqbal Open University (AIOU) is to be the Executing Agency for the Project.

3. PROJECT SITE

The Project location site is in IET in the main campus of AIOU, Islamabad, Pakistan.

4. ITEMS REQUESTED BY PAKISTANI SIDE

The items with priorities requested by Pakistani side for the Project have been confirmed as shown in Annex 1.

Both sides have agreed, however, that the details of each item will be examined and finalized by further studies in Japan on the basis of the scope of the Project as well as the scheme of Japan's Grant Aid Programme.

5. JAPAN'S GRANT AID SYSTEM

Pakistani side has understood the system of Japan's Grant Aid Programme explained by the team as shown in Annex 2.

6. NECESSARY MEASURES TO BE TAKEN BY PAKISTANI SIDE Pakistani Side will take necessary measures described in Annex 3 for the smooth implementation of the Project on condition that the Grant Aid by the Government of Japan is extended to the Project.

7. FURTHER SCHEDULE OF THE STUDY

- 1) The Consultants Team will proceed to further study in Pakistan until December 31, 1994.
- 2) Based on the agreement of Minutes of Discussions and technical examination of the study results, JICA will complete the final report and send it to Pakistani side by May, 1995.

8. OTHERS

Both sides have confirmed following items;

- 1) Equipment of which main purpose is transmission of broadcasting signals will not be included.
- 2) Equipment which requires construction of major new building or extension work of IET existing building will not be included.
- 3) Equipment of which significant construction work is necessary for the installation will not be included.
- 4) Since the programmes produced by the IET are broadcast through the Pakistan Television Corporation (PTV) for the effective implementation of distance education, it is assured that Ministry of Education and AIOU would take necessary coordination with PTV so as to utilize the equipment covered by the Project in full extent.

		Facility	Purpose	Equipment	Pr'ty
	A	TV Studio	Replacement	Color Camera Chain	A
			-	Flyingspot Scanner	A
	ł			Character Generator	A
				Video Production Equipment	A
				Audio Production Equipment	Α
				Video Cassette Recorder	A
				Monitoring Equipment	A
				Studio Intercom Equipment	A
				Lighting Equipment	A
	B	Central Apparatus	Replacement	Sync Signal Generator	Α
		Room		Television Generator	В
				Automatic Change Over Unit	A
Λ :		· · ·		Video Distribution Amplifier	A
				Audio Distribution Amplifier	A
		· ·		Pulse Distribution Amplifier	A
\mathbb{N}				Video/Pulse Delay Unit	A
· •				Rack Assembly	A
1				Master Clock and Slave Clock	B
				Telecine Chain	A
				Signal Distribution System	A
				Room to Room Communication	A
\sim				System Converter	A
				VHF Communication System	В
12	1		·	Satellite Broadcast Receiver Set	C -
•				Video Color Printer	B
	C	Editing Equipment	Replacement	Automatic Editing Control Unit	A
				Video Cassette Recorder with Time	Α
	ł			Code & TBC	
<u>M</u>				14" Picture Monitor w/Audio Speaker	A
$\left \left \right\rangle \right $				Console	A
YU .				Head Set	B
_	D	Post Production	New	Video Cassette Recorders	A
		Studio	Acquisition	Editor	A
				Video Production Equipment	A
				Audio Production Equipment	A
	1			Monitor Equipment	A
				Rack Assembly	Α
	E	Outdoor Coverage	Replacement	Video Cassette Recorder in Camera	A
				Audio Equipment	Α
				Monitor Equipment	Α
				Portable Lighting Kit	A
				Outdoor Coverage Car	Α
	1			Portable Dimmer	B

Annex 1 ITEMS REQUESTED BY PAKISTANI SIDE

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•	E-ailiter	Purpose	Equipment	Pr't
F	Facility	New	Measuring Equipment	A
Ľ	Measuring Equip't	Acquisition	Tools	В
G	& Tools Installation	Replacement	Installation Materials	A
TT	Materials Power Supply	Replacement	Distribution Board	A
F1	Lower orbhy	reprocession	Isolation Transformer	A
			AVR	<u> </u>
I	Presentation	New	Color Video Projector	A
T	Equipment	Acquisition	20" Color Picture Monitor	B
	Edathmene		40" Color Picture Monitor	B
			VHS Video Cassette Recorder	A
			Optical Presentation Panel	
			Electronic Print Board	B
J	Electronic Field	New	Color Camera Chain	<u>A</u>
U	Production Car	Acquisition	Video Production Equipment	A
	1 Ioduction ou	*	Audio Production Equipment	<u>A</u>
			Video Cassette Recorder	<u>A</u>
			Monitoring Equipment	<u>A</u>
	}		Modified Vehicle	<u> </u>
K	Others	New	Test Run Tape	<u>A</u>
~~		Acquisition	Microscope w/Camera Attachment	<u>A</u>
			PA System	<u>A</u>
			Conference System	B
			Duplication Master	<u>A</u>
	•		Microcamera	A
•			Script Processing Equipment	
L	Radio/Dubbing	New	Audio Mixer	
	Studio	Acquisition	Multitrack Tape Recorder	
			Compact Disc Reproducer	
			Tape Recorder/Reproducer	
			Disk Reproducer	
			Cassette Tape Recorder/Reproducer	
	a *		Sync Lock System	
1			Effecter	
			Monitor Speaker w/Amplifier	
			Studio Monitor Speaker w/Amp.	
			Microphone & Stand	
• •			Announcer Cough Box	
.			Announcer Desk	
ļ			Headphone Box	A
			Headphone 1/2" Video Cassette Recorder	
			Color Picture Monitor	
			High Speed Cassette Duplicator	
			Spare Parts	
N	1 Spare Parts	New	opare r a s	
		Acquisition		Å—
	· · ·			
		*	-4-5	
		A	- 	

Annex 2

Japan's Grant Aid Scheme

- 1. Grant Aid Procedures
- 1) Japan's Grant Aid Program is executed through the following procedures.

Application	(Request made by a recipient country)				
Study	(Basic Design Study conducted by JICA)				
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)				
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)				

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

- Ð
- 2. Basic Design Study
- 1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the requested project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.

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- d) Preparation of a basic design of the Project
- e) Estimation of costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firms(s) based on proposals submitted by interested firms. The firm(s) selected carry (ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

- 3. Japan's Grant Aid Scheme
- 1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments. 4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be provided.

When the two Governments deem it necessary, the Grant Aid may be used for the provision of the products or services of a third country.

However the prime contractors, namely, consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

- 6) Undertakings required of the Government of the Recipient Country In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:
- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.

(4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products provided under the Grant Aid.

- (5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- (6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.
- 7) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment provided under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

8) "Re-export"

The products provided under the Grant Aid should not be re-exported from the recipient country.

- 9) Banking Arrangements (B/A)
- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

Annex 3 NECESSARY MEASURES TO BE TAKEN BY PAKISTANI SIDE

Following items of work related to the realization of the Project shall be executed by the Pakistan side whenever required.

- Civil work for the building contemplated to install the requested equipment, interior work of the building and the relocation work of the existing equipment and facilities
- Electric work for receiving, transforming and distribution of electric power (except for Distribution Board, Isolation Transformer and AVR for Power Supply)
- 3) Electric lighting work (except Lighting Equipment for TV Studio and Portable Lighting Kit for Outdoor Coverage Equipment)
- 4) Air conditioning work, if necessary
- 5) Telephone and communication facility work (except Studio Intercom Equipment for TV Studio and VHF Communication System for Central Apparatus Room)
- 6) Utensils and furniture (except special furniture for Studio)
- 7) To ensure prompt unloading, exempt taxes, and take necessary measures for custom's clearance at port of disembarkation and inland transportation in Pakistan of the equipment provided under the grant aid, and bear all expenses for going through formalities.
- 8) To exempt Japanese nationals (physical and juridical) from customs duties, internal taxes and other fiscal

levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.

- 9) To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement.
- 10) To accord Japanese nationals whose services may be required in connection with the supply of products and services under the verified contract such facilities as may be necessary for their entry into Pakistan and stay therein for the performance of their work.

11) To maintain and use properly the equipment provided under the grant aid.

- 12) To bear all the expenses other than those to be borne by the grant aid, necessary for the execution of the Project.
- 13) To take measures of permission and sanction necessary for execution of the Project.

Appendix-5 Social and Economic Conditions of Pakistan

Name of Country Islamic Republic of Pakistan

			T	
Republic	 *1	Area of land	796 thousand km2	
President Farooq Ahmed	*1	Population	125, 213 thousand (1993)
Khan Leghari	J	Capital city	Islamabad	
August 14, 1947	* 1	Principal cities	Karachi, Lahore,	
Punjabi, Sindi, Baluchi,	*1		Faisarabad, Hyderabad	
Patan		Workforce	28,900 thousand ((1987)
Urdu, English]*1	Compulsory education	- /	(1992)
Islam 97%]*1	Enrolment ratio	- ((1990)
September 1947]*1	Literacy ratio	35.0 % ((1990)
July 1950	* 1	Population density	162.0 persons/km2 ((1992)
].	Population growth rate		(1993)
]	Average life expectance		
]	Mortality rate	103.6/1000(5y old) ((1993)
	1	Nutrition	2, 280. 0cal/d/person ((1990)
Pakistan Rupee(Rs)	*1	Trade	((1993)
Pakistan Rupee(Rs)	*1	Trade		(1993)
	4	·		
	4			
(1991)	*2	Import cover rate		(1992)
7,369.7 mil\$				
9, 547. 4 mil\$	-1 7			
	*2	and the second s		(1992)
	-	Import from Japan	1, 297. 0 mi 1\$	(1992)
	-1			
47, 287. 0 \$ (1991)	*4	Foreign currency reserve		(1994)
Agriculture 26.0%	*4	Debt outstanding		(1992)
Industry 25.0%		Debt service ratio		(1992)
Service 49.0%	·	Inflation rate	9.1%	(1992)
Agriculture 47.0%	*2			
Industry 20.0%	E C			
	President Farooq Ahmed Khan Leghari August 14, 1947 Punjabi, Sindi, Baluchi, Patan Urdu, English Islam 97% September 1947 July 1950 Pakistan Rupee(Rs) IUS\$=Rs30.727 July June (1991) 7.369.7 mil\$ 9,547.4 mil\$ 530.00 mil\$ (1992) 1,169.00 mil\$ (1992) 1,169.00 mil\$ (1992) 47,287.0 \$ (1991) Agriculture 26.0% Industry 25.0% Service 49.0% Agriculture 47.0%	President Farooq Ahmed *1 Khan Leghari *1 August 14, 1947 *1 Punjabi, Sindi, Baluchi, *1 Patan *1 Urdu, English *1 Islam 97% *1 September 1947 *1 July 1950 *1 Yatta 14, 1947 *1 September 1947 *1 July 1950 *1 Yatta 14, 1990 *1 Yatta 14, 1990 *2 Yatta 14, 1991 *2 Yatta 14, 1992 *2 Yatta 14, 1992 *2 Yatta 14, 1992 *2 Yatta 14, 1992 *4 Agriculture 26, 0% *4 Industry 25, 0% *2<	President Farooq Ahmed Khan Leghari*1Population Capital cityAugust 14, 1947*1Principal citiesPunjabi, Sindi, Baluchi, Patan*1Principal citiesUrdu, English*1Compulsory educationIslam 97%*1Enrolment ratioSeptember 1947*1Literacy ratioJuly 1950*1Population densityPopulation growth rateAverage life expectanceMortality rateMortality rateMurition(1991)*2ExportJuly - JuneImport(1991)*2*369.7 mil\$*2*4Principal imports530.00 mil\$ (1992)*2*2Export to Japan1, 169.00 mil\$ (1992)*447, 287.0 \$ (1991)*4Foreign currency reserveAgriculture25.0%*2Envice ratioInflation rateAgriculture47.0%	President Farooq Ahmed *1 Population 125, 213 thousand (Khan Leghari August 14, 1947 *1 Principal cities Karachi, Lahore, Panjabi, Sindi, Baluchi, *1 Principal cities Karachi, Lahore, Patan Kokforce 28, 900 thousand (Urdu, English *1 Compulsory education 1 year (Islam 97% *1 Enrolment ratio - (September 1947 *1 Literacy ratio 35.0 % (July 1950 *1 Population density 162.0 persons/km2 (July 1950 *1 Population growth rate 2.87 % (Average life expectanc av 57.11 m. 56.5 f.57 Mortality rate 103.6/1000(5y old) (Nutrition 2.280.0cal/d/person (Nutrition 2.280.0cal/d/person (Pakistan Rupee(Rs) *1 Trade (12.4 % ((IUS\$=Rs30.727

Weather co	nditior	ıs (avei	rage of	1949 -	1979) :	Islama	bad	(above s	ea level	l 511m)				
Nonth	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Av. / Total	
Max, Temp.	16.0	19.0	24.0	31.0	37.0	40.0	36.0	34.0	34. 0	32. 0	28. 0	20.0	29. 2 °C	
Min. Temp.	2. 0	6.0	10.0	15.0	21.0	25. 0	25. 0	24. 0	21.0	15.0	9.0	3. 0	14.6 ℃	
Av. Temp.	9. 0	12.5	17.0	23.0	29. 0	32.5	30.5	29. 0	27.5	23. 5	18. 5	11.5	21. 9 °C	
Precipi.	64. 0	64. 0	81.0	42.0	23. 0	55.0	233. 0	258.0	85. 0	21. 0	12. 0	23. 0	961. O mm	
Wet/Dry							rainy	rainy						

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±4

Plan

33. 0%

7.8% (1992)

Service

Economic growth rate

*1 The World Factbook(C.I.A.)

National Development

#2 Human Development Report(UNDP)

#3 International Financial Statistics(INF)

*5

Name of Country	Islamic Republ	ic of Pakista	n.	
	ommittment base)			(Million
Sect	lear 1989	1000	1001	1002

oect.	1909	1990	1991	199Z
Grant	204, 346	238, 247	251, 530	269, 997
Technical Assistance	214, 674	198, 963	205, 070	219, 495
Loan	516, 142	567, 639	736, 447	585, 205
Total	935, 162	1, 004, 849	1, 193, 047	1, 074, 697

				*7
ODA from Japan to Pakistan	(Net disbursem	ent)		(Million \$)
Sect. Year	1989	1990	1991	1992
Grant	14. 26	11. 54	12.67	12.82
Technical Assistance	74. 78	56.06	74. 13	59.39
Loan	88. 42	125.96	40.55	101.04
Total	177.46	193. 56	127.35	173. 25

dedite and coopera	tion by ODA countries									
	Grant	(1)	Loan	ODA	Others	Total				
			(2)	(1)+(2)=(3)	(4)	(3)+(4)				
		Tech. Assis.								
Direct	402.20	214.80	67.20	684.20	46. 30	730. 5				
(Principal)										
1. USA	110.00	110.00	-71.20	148.80	4.00	152. 8				
2. Japan	72.20	12.90	101.10	186.20	0. 00	186. 2				
3. Holland	47.30	27.00	-10.90	63.40	0.00	63.4				
4. Germany	42.50	24.00	37.20	103. 70	16. 20	119. 9				
Indirect	227.60	105.40	373.80	706.80	460.60	1, 167. 4				
(Principal										
organization)	0.00	0. 00	0.00	0.00	0.00	0. Q				
	0. 00	0.00	0. 00	0.00	0.00	0. 0				
Others	163.90	73.90	55. 90	293. 70	42.30	336. 0				
Total	793. 70	394.10	496.90	1, 684. 70	549.20	2, 233. 9				

Organization	in charge of accept	ing aid			
Technical	Public entity	+	Ministry concerned	->	EAD
Grant	Public entity	• →	Ministry concerned	->	EAD
Cooperator	Public entity	+	Ministry concerned	+	EAD

*7 Japan's ODA(Annual Report)

*8 Geographical Distribution of Financial Flows

of Developing Countries(OECD/OCDE)

\$9 Information of cooperation with each country(JICA)

*7 Yen)

Appendix-6 ESTIMATION OF COSTS BORN BY PAKISTAN SIDE

The costs of the work to be borne by the Pakistan side in relation with this project will be about two million rupees. The breakdown is as follows:

Removal of partitions in the		
studio control room :	Rs.	5,000/-
Removal of existing equipment :	Rs.	20,000/
Lighting/control works for sub studio :	Rs.	940,000/-
Civil and other related works		
for main and sub studios :	Rs.1	,035,000/-

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List of Existing Equipment

Appendix-7 List of Existing Equipment

					~		2	[0 - 0 4 0 4 - 4
S. NO.	Nomenclature & Model	Make	Mcdel	Year of Installation	u ty	Present Status	keason or Malfunction	TOCALLUI	Source
	A TV Studio Fouinment	 							
	V. II DEDAU EQUIPART	Sonv		1983		ى		TV CONTROL ROOM	UNDP
	ATOSHOD DOD	Taktroniv	2213	1983				MAINT ROOM	CNDP
.70		Dureno		1983	,	9		TV CONT. ROOM	AGNU
		E		1983	5	PW.	MAIN FILTER DEF.		donu
40	DIMMER KACK 12 WAY	as m.r		1983		6		DIMMER ROOM	UNDP
3	Fatch Fahel Ior Ulumer	L UL SC	SPC-2000P	1983	i	RR.		M. C. R.	- UNDP
	Special Lilect Ven.	1. sub		1983	-	F.	P.S.U. DEF.	M. C. R. (AUDIO)	AUND
- 1	Canera latkback Unit	L Snk		1983		RR.		T. C. R.	ADND
20	Caption Camera D/ "	1417		1983	5	ප		TV CONT. ROOM	agnu
10.50	VIGEO JECKLIELU Folour TV Monitor	Sonv	PVM-9000	1983	m	.dd	WEAK PIX. TUBES	EFP USE	AUND
		Sonv	PVM-1850	1983	9	4-F.		EDITING	UNDP
						2-PP.	WEAK PIX. TUBES	M. C. R.	-
19	Colour TV Monitor	Sonv	BVM-1301	1983	-		PIX TUBE / PSU	OUT OF SERVICE	CINDP
10	Vidoo Cassatta Recorder	Sonv	BVU-110P	1983	~	1-F.			AQND
			1			1-08.	ARM PRCEED GUIDE	FEP USE	
-	Widon Forcette Percerder	Sonv	RVII-800P	1983	2	GR.	POOR PERFORMANCE	OUT OF SERVICE	UNDP
# 4	Vidoo Camara	Sonv	DXC-6000FK	1983	7	3-F.		TV. STUDIO	UND
F .						2-UR.		EFP USE	
						<u>1</u> -D.		OUT OF SERVICE	
						I-Pp.			
91	Camera Control Unit	Sony	CCU-6000P	1983	6	5-F.		TV CR + TC	AUND
-						1-UR.		Tech STORES	
-	Time Base Corrector	Sony	BVT-500	1983	2	1-UR.		ц <u>т</u>	dun
;						1-PW.	OUTPUT PCB DEF.	TV CONT. ROOM	
	Bditing Control [mit	Sonv	BVE-500ACE	1983		ш.		VTR	GNDP
	Editing convict on the film Chain Adaptor	Sonv	VCR-20	1983	1	3		TCR	UNDP
ът Та		() (10-92	1983	.c.	2-5	DUBBING MACH.	TV STUDIO	dun
20.	Flexible Cable Unit	Sony	LU 43	2007) 	2 e 3 c			

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		1				•		
nclature & Model	Make	Model	Year of Installation	Q' ty	Present Status	Reason of Malfunction	Location	Financial Source
sette Recorder	Sony	BVU-200P	1983	9	2-F.		CONT.	AGNU
					2-UK. 1-PW.		DUBBING	
					1-D.		OUT OF SERVICE	
ctor (16mm)	Hokushin	M/SC-105	1983		Ŀ.		T. C. R.	dann
Voltage Stabiliser	Claude-Lyons	TS-3	1983	2			T.C.R.	UNDP
Eraser	Amos	Model-8	1983		ප්		T.C.R.	UNDP
ole	Neve	NEVE-5452/12	1983	-1	PW./UR.	POWER PCB DEF.	M.C.R (AUDIO)	UNDP
crophone Booms	Colortran		1983	~	ď	BIG MECHANISM DEF.	TV STUDIO	donu
					1			LINDD
t Vectorscope	System-Video	1202/1205	1983		ЪЧ.	VIDEU PUS DEF.		JUNU
se Gen.	System-Video	1330	1983	~1	പ്			UNDP/ UDA
ck Unit	System-Video	1301	1983	~1	ш.		TV CONT. ROOM	donu
	System-Video		1983	1	3		TV CONT. ROOM	UNDP
umplifier	Sela		1983	7	u.	PCB DEF.	OUT OF SERVICE	AGNU
e Board	Sony	BK-808	1983	~1	ى		T.S	GNDP
nera Cable		CCX-25A	1983	2			T. S	don
untrol Unit		BVE-800	1983	1	კ		T. S	UNDP
)il Head	Sony	SAM-TPD-205	1983	4	ى		TV STUDIO	UNDP
ewriter	FOR-A	VTW-210	1985		۱. ۲		T. C. R.	donu
ter	FOR-A	FVW-910	1985		ප		T.C.R	UNDP
el Controller	FOR-A	ALC-4100	1985	1	ى		T.S. (DUB/EFP USE)	dunn
Card Memory Unit	FOR-A	MU-300	1985	1	D.	PCB DEF.	OUT OF SERVICE	dunn
nter	FOR-A	VP-380	1985		C.		T. C. R.	CNDP
	· ·							
								-
				•				
								·
NO. NO. 221. NO. 233. 224. H 20. 233. 233. 24. H 20. 233. 233. 24. H 20. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	Nomenclature & Model Nomenclature & Model Video Cassette Recorder Film Projector (16mm) Automatic Voltage Stabiliser Bulk Tape Eraser Sound Console Compact Microphone Booms with Pram Waveform & Vectorscope Compact Microphone Booms with Pram Waveform & Vectorscope Sync. Pulse Gen. Colour Black Unit Colour Black Unit Equipment Bay for above Unit RIIA Pre Amplifier Inter Face Board Colour Camera Cable Editing control Unit Tripod w/Oil Head Video Typewriter Video Writer Video Writer Video Priter Audio Level Controller Magnetic Card Memory Unit Video Pointer	Nomenclature & ModelMakeNideo Cassette RecorderSonyVideo Cassette RecorderSonyFilm Projector (16mm)HiokushinAutomatic Voltage StabiliserClaude-LyonsBulk Tape EraserAmosSound ConsoleNeveCompact Microphone BoomsColortranWith PramSystem-VideoWith PramSystem-VideoSystem-VideoSystem-VideoSystem-VideoSonyEduipment Bay for above UnitSonyInter Face BoardSonyColour Slack UnitSonyTripod w/Oil HeadSonyVideo TypewriterFOR-ANudio Level ControllerFOR-AMagnetic Card Memory UnitFOR-AVideo PointerFOR-AVideo PointerFOR-A	Nomenclature & ModelMakeModelNideo Cassette RecorderSonyBVU-200PVideo Cassette RecorderSonyBVU-200PFilm Projector (16mm)HiokushinM/SC-105Automatic Voltage StabiliserClaude-LyonsS-3Bulk Tape EraserAmosMedel-8Sound ConsoleNeveNEVE-5452/Compact Wittp FramNeveNEVE-5452/Sound ConsoleNeveNeveSound ConsoleSystem-Video1301Gompert Mittp PramSystem-Video1301Compact Black UnitSystem-Video1301Equipment Bay for above UnitSystem-Video1301Equipment Bay for above UnitSonyBW-808Colour CaneraSonySonyBW-808Inter Face BoardSonySonyBW-808Colour CaneraSonyBV-300Video WriterFOR-AVITW-210Magnetic Card Memory UnitFOR-AVP-380Video PointerFOR-AVP-380Video PointerFOR-AVP-380	Nomenclature & ModelMakeModelVideo Cassette RecorderSonyBVU-200PFilm Projector (16mm)HokushinM/SC-105Automatic Voltage StabiliserClaude-LyonsTS-3Sund ConsoleNoveMedel-8Sound ConsoleNoveNeve-5452/12Compact Mit PamColortrainMedel-8System-Video13301300Equipment Bay for above UnitSystem-Video1330Colour Black UnitSystem-Video1330Equipment Bay for above UnitSystem-Video1330Colour Camera CableSonyBW-808Miling control UnitSonyBW-808Milo Level Control UnitSonyBW-808Video WriterFOR-ANTW-210Video PointerFOR-ANTW-210Video PointerFOR-ANTW-210Video PointerFOR-ANTW-310	Nomenclature & ModelMakeModelYvar of InstallationYvar YvarYvar<	Nomenclature & ModelMakeModelYear of InstallationYear of YideVideo Cassette RecorderSonyBVU-200P19536Film Projector (16mm)HokushinM/SC-10519831Attomatic Voltage StabiliserClaude-LyonsM/SC-10519832Bulk Tape ErsserAmosNodel-819831Sound CossicNeveNeveNeve-462/1219832Sound CossicNeveNeve100019832Sound CossicNeveNeve100019832Sound CossicNeveNeve19832Sound CossicNeve100019832Sound CossicNeve19832Maxeform & Vectorscope55519831Maxeform & Vectorscope55519832Sound CossicSystem-Video10119832Compact Miscrophone BoonsColortran19832Sound CossicSystem-Video19832Sound ConsicSystem-Video19832Mith Pre AmplifierSonyNM-200519832Colort Camera CableSonyNM-200519831Miter Face BoardSonySW-700019851Color Camera CableSonySW-700019851Miter Face OsonrdFOR-AAtC-410019851Video UpvinterFOR-ANU-200019851Video	Nomenclature & Model Model Tear of Installation Year of Status G' ty Status Present Video Cassette Recorder Sony BWU-200P 1983 6 2-ft. Ell Projector (16mm) Hikke Model Installation 6 2-ft. Buil Tage Erser Sony WV2-200P 1983 1 F. Buil Tage Erser Annos Model Model 1-ft. 1-ft. Buil Tage Erser Annos Model 1983 2 F. 1-ft. Sound Console Neve Neve Neve 1983 2 D. Bio Sound Console Neve 13030 1983 2 D. Bio Sound Microphone Booms Colortran Neve 13030 2 M. U. Sound Microphone Booms System-Video 13030 2 E D. Bio Sound Microphone Booms Sound Microphone System-Video 1983 1 U. D. B	Nomenclature & Model Make Model Tver of Installation Tver of Status No Video Gassette Recorder Sony BUU-200P 1983 6 2-F. Filla Projector (16ma) Hakushin WSC-105 1983 6 2-F. Bulk Tape Erster Laude-Lyons TS-3 1983 1 F. 1-0. Bulk Tape Erster Amonastic Volcage Stabiliser Laude-Lyons TS-3 1983 2 F. Bulk Tape Erster Amos Model-8 1983 1 PM. (IR. POWER PCB DEF. Sound Consols Netwe KFVF-5452/12 1983 1 P. C. Sound Consols System-Video 1303 1983 1 P. C. Sound Consols System-Video 13983 2 D. Bio MCHWISM DF. Sound Consols System-Video 13983 2 D. D.

A-7-2

List of Existing Equipment

Nomenclature & Model	Make	Model	Year of Installation	Q'ty 0	Present Status	Reason of Malfunction	Location	r inanciai Source
TANTO CTINIO EAUTOMENT								
B. KADLU SLUDIU EQUIFMENT	D-11 & United	2/06V	1083	-	Ŀ		RADIO STUDIO	ODA
Cassettee Tape Kecorder	TTAMOU % TTAG	2000V	0001				RADIO STUDIO	0DA
Turntable	Technice	SL-4303	1900				DADTO STITUTO	ODA
Audio Console 8 Channel	Neve	4552/8	1983		5		OTADIC OTAN	VUO
r.	Revox	PR-99	1983 -	-1	ئ			- VIO
1/4" Audio Tape Recorder	Proline	1000	1983	7	u.	Servo Problem	KADIO SIUDIO	UDA
Audio Japo montar	Snotmaster	3200RPS	1983		Ľ.	Mechanical	RADIO STUDIO	ODA
Varutuge machine	H/H	TPA-250	1983		ى		RADIO STUDIO	ODA
Tartitum uolony		VD35	1983	2	ي		RADIO STUDIO	ODA
Loudspeaker	000000000		000				RADIO STIDIO	ODA
Limiter / Compressor	Neve	33610	1983		اخ			ODA
Automatic Voltage Slabilizer	Claude	TS-3	1983	1				Van
Wierschone	AKG	D202	1983	2	в.		KADIO SIUDIU	AUD
tic Dictain hut i on Amnlifian	Surrev	Amp-3	1983	-	ප්		RADIO STUDIO	VNN
Auglo Ulsuraturi mutum Auglo Ula								
10 OUTLEL			0007	- -	¢		RADIO STUDIO	ODA
1/4" Audio Tape Recorder	Revox	PR-99	1983	7	5			ODA
Audio Amplifier	H/H	TPA-25D	1983		5		NTADIC OTANIO	ODA
Loudspeaker	1	. [1983		5			100
the Deserver	Gondsell	CTR-8285	1983	2	ۍ ت		RADIO STUDIO	VUU
Casselle lape vecolues	Ambou	KM-C	1983		PW.		RADIO STUDIO	
Audio Mixer	Vadiny	Indexes TT	1002		Ŀ		RADIO STUDIO	ODA
1/4" Audio Tape Recorder	Kevox	D(//WV_TT	1200		; ,		DADTO STUDIO	ODA
Audio Distribution Amnlifier	Surrev	Amp-3	1983	! 	5		ATTALE OTAEN	1170

Note: "Year of Installation" denotes the year of installation on the present location.

Abbreviations in the column of "Present status" denote the following: D : Defective. C : Good. PP: Poor performance. F : Functional after Repairs. U : Unserviceable.

A-7-3

					Baculty of	Faculty of	Paculty of	BUESP	
	Half Half	alf Full	Non-	a	Social Sci.	Basic & App-	Education		ŝ
ave] (Prostane	Credit	Credit	Credit	Total	a Humanities	lied Sci.	-		Total
Non-credit									
Netstanter courses			- 15	15		8	1	4	
Resic Functional			- 17	17		- 1 3	9	*	11
			-			2	7	-	11
Nurtine 1		 	4			-1	-1-	-	4
	Cut Total	-	14			5	23	1 18	4
Under Grecheste			<u> </u>						
		10	8	- 18		8	11	1	- 18
Teteradiate			16	- 47		28	19	2	
at strice taken	2 5			15		56	4	1	19
N.A. in Committee Analization			 	3			12		- 12
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	C.h 7.041		5 5	8 146		88		4	0 146
						3			
Master's Degree				5		90	0		8
R ₂			-	8		07	•		81
LAA		10				10			
N. Sc. Pakistan Studies	-		10	-		F			
Dip /N. Ed. (Special Education)	-	10	2	- 12	-	1	-	12	
L A TEFL	-	4		▼		4			
	Sub Total	5	15	88		45	2	22	6 8
Teacher Education									
P.L.C.		6	1	- 10			-	10	-10
		10	-	- 11		-1	-	11	- 11
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		2 8	7			-1		10	- 10
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M. Phil. Degree						-			4
Islamic Studies			.	• -		P -			•
lqbaliat		•		•		4			
Urdu			4	▼ 1		4			
Education		1	10	10					
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Grand	Grand Total 1	175 1	101	51 327		160	79	68	20 327

8-2 Course-wise Enrolment

COURSE-WISE, COURSE ENROLMENT, ALLANA 1QBAL OPEN UNIVERSITY

. No	COURSES	Code	Spring-9	2	Auteen-9	92	Spring-	93	Autuon-9	3	Spring-	94
		1	X	Т	X	т	X	7	X	T .	<u> </u>	Ť
	FUNCTIONAL (NON-CREDIT)					T						
1	Supper Vegetable Growing	101	-	-	-	-				l		
2	Winter Yegetable Growing	102	-	-	-	- 1						
3	Soil Problems and their Remedies	103	-	-	-	~						
4	Plant Protection	104	-	-	-	-						
5	Poultry Farming	105	-	-	-	-					•	
6	Tractor Repair and Maintenance	106			-							
7	Sheep and Goat Husbandry	107	-	~	-	-		1				
	Elementary Arabic	110	192	283	114	168	124	237	183	293	237	393
9	Daftri Urdu for Federal Government Officers	1111	110	115	82	87	104	106	69	71	26	2
	Arabic Bool Chall	114	-	-	-	-						
11	Daftri Urdu for Provincial Government Officers	115	9	30	-	-						
	Sub-total		311	428	196	255	228	343	252	364	263	42
	TOKEN'S EDUCATION KATRIC PROJECT											
12	Selling of Noce Made Products	200	-	1	-	1	-	4	-	. 4	. 3	
	Islaniat	201	-	109	-	571	-	27	-	14	1	44
14	Pakistan Studies	202	-	682	•	41	-	47	4	592	58	2, 51
15	General Science	203	-	108	-	596]	-	77	- 1	26	1	44
16	lirdu for Daily Use	204	-	614	-	32	-	20	4	513	57	2.36
	Arabic	205	-	15		3						
18	Family Health Care	206	· _	106	-	69	-	54	3	329	-	7
	Functional English-1	207	-	82	-	597	-	108	-	53	1	45
20	Garpent Making-1	208	~	77	-	57	-	733	-	19	L	3
21	General Hope Economics	209	-	55	-	35	-	29	3	328	-	7
22	Gargent Making-11	210	-	53	-	41]	-	55	3	334	÷.	7
	Poultry Farsing	211	-	-	-	-						
24	Maintenance of Home Electrical Appliances	212	-	-	-	-						
	Sindhi	213	-	71	-	-	-	2	-	69	1.	12
26	General Arithmetic	214	-	150	-	78	-	740	1	30	. 1	2
	Education	215	-	20	-	4 4	-	3	-	2	-	
28	Food and Nutrition	217	-	1	-	1 [1	
20	First Aid-J	218	-	55	-	10	-	10	-	8	-	
	First Aid-11	220	-	32		10	-	8	-	9	-	
	Functional English	221	-	168	-	113	-	810	÷ .	69	2	1
	Applied Food & Nutrition	222	-	2	-	·						
	Sub-total		-	2.401		2, 259	-	2, 727	18	2,399	126	6, 72

COURSE-WISE, COURSE ENROLMENT, ALLAMA IQBAL OPEN UNIVERSITY

10 V-1	COURSES	Code	Spring-S	2	Autum-9	<u>2 </u>	Spring-f	93 T	Autom-	93	Spring-1	94
S. No	CUDROES	- Constant	I I	ĩτl	X	ĨΤ	X	ĩ	X	Ť	¥	<u> </u>
	INTEREDIATE CONISES											
33	Daftri Urdu	301	293	461	-	- 1	88	113	64	101	63	18
	Urdu	302	1, 622	2, 780	601	1,096	974	1,709	996	1.702	2, 369	3, 948 638
	lgbaliat	303	1,001	1, 760	-	-	312	593	326	573	361	1, 152
36	Pakistan Studies (Elective)	304	-	•	1,042	1, 740	586	1.000	614	1.031	702 68	1. 152
37	Rural Development	305	394	740	-		100	183	89	165	1	4
38	Food and Nutrition	306		· ·	755	1, 690	-		- 049	243	531	533
	Electrical Viring	307	372	374	2	2	458	463	243 216	400	257	426
Į 40	General Science	308	560	1.102	-	1	302	519 67	Z10	400	71	188
	Arabic	309	-	I	63	114	37 1, 362	2, 379	1, 319	2, 271	2, 492	4. 168
	English	310	1, 986	3, 401	1.194	2, 117	1, 302	2, 3/4	25	29	17	21
	Book Keeping and Accountancy	311	96	106	1 919	1,793	475	926	436	876	528	955
	Education	312	-		atā	I' 182	910 82	121	58	102	69	114
45	Dairy Husbandry	313	369	700	- 144	145	- 64	101	21	21	71	71
	Electrician	314			223	348	87	155	98	142	131	182
47	Economics	315	1 100	2, 490	223	1,009	766	1.362	698	1.240	1. 821	3,073
48	Islamiat (Compulsory)	316 317	1, 405 1, 449	2,490	582	1,058	783	1, 419	745	1, 352	1.842	3, 129
49	Pakistan Studies (Compulsory)	317	1,449	2,004	9	1, 036	2	5	2	4	32	37
	Sindhi Easy Urdu	319	17	21	4	8	Ĩ	5	7	10	10	. 25
	Ethics	319	L . "	_ **	. 1	. "		-	-			
1	Sindhi Bool Chall	321	1,055	1.756	-	-	529	769	306	512	361	549
53	Muslim History of Sub-continent Secretarial Practice	322	1,030	1.100	58	82	39	43	-	-	40	43
54	Nathematics-	323	-	-	50	72	-	- 1	33	48	28	42
55	Wathematics-1	324	-	1	-							
57	not offered	325		- [-	-	-	- 1		2
58	Farm Inccome Generating Skill	326	164	301	-	2	84	121	78	110	78	95
59	Farm Machinery	327		-	13	19	-	-	9	10	6	6
60	Inproved Nethods of Oil Seed Crops	328	-	-	236	388	112	171	123	165	142	186
61	Jadeed Zaraat	329		ļ			-	-	-	-	80	88
62		330	· ·		330	991	159	499	159	502	171	517
63		331] -	-	75	86	26	32	-	-	36	48
64		332	-	-	65	66	38	38	-		39	41
65	i i i i i i i i i i i i i i i i i i i	333	16	42	-	24	-	12	33	55	14	42
66	English Typewriting (Advance)	334	1 .							19	. 10	36
67	English Shorthand (Elementary)	335	15	35	-	16	-	11	11	1.9	. 10	30
68		336	1 -	1	·	-		7	3	3	-	_
69		337	-	-	12	12	6	7	3	3		
70		338	·	-	- 10	- 10	6	7	2	- 2	-	-
71		339	-		12	12	0	1	6	6	· ·	
1 72		340	1	- 52	-	- 1	-	1	66	68	16	16
73		341	46	52 380		1	94	176	99	177	91	156
74		343	100	900	1, 361	2. 406	432	864	591	1, 129	882	1, 582
75		343		<u> </u>	1.301	2.405	12	13	-	-	32	32
76		345			135	645	34	287	31	285	29	297
77		346	-	-	114	130		-	69	85	86	104
78		347	I -	-	45	54	25	30	-	-	17	29
80		348	.	. .	15	15	-	-	7	8	7	7
81		349					j -	-	-	-	97	145
82		350	1 .				-	-	-	- .		1
83		351		-	17 -	17	-	-	27	27	10	10
8		355					-	-	-		104	27
8		356	1		}		104	282	129	342	164	485
8		357	ł]		107	304	132	348	34	392 42
8		361	1				· ·	-	· ·	-	25	42 113
	Primary Teacher's Orientation Course	602		300				-		14 164	56	23, 985
	Sub-total		11, 177	19, 417	8, 744	16, 280	8, 253	14.719	7,865	14, 157	14,086	20, 905

COURSE-WISE, COURSE ENROLMENT, ALLAMA IQBAL OPEN UNIVERSITY

. No	COURSES	Code	Spring- ₩	92 T	Autuen-1 Y	92 T	Spring- W	93 T	Autusn-1 ¥	ва	Spring-	34 T
	B. A. COURSES		3									<u> </u>
	Accountancy	401	580	638	•	- 1	331	348	349	382	551	581
	Economics	402	-	- 1	489	602	409	456	376	418	626	679
	Pakistan Studies (Elective)	403	406	599	1	1	763	993	627	830	737	959
	lirdu loballat	404	1, 206	1.744		1	764	1,060	687	945	629 223	1, 161
	Economics of Pakistan	405	-	.	1, 237 145	1,720 186	167	245	205 45	300 56	223 61	327 72
	History of Nodern Muslim Yorld	400			400	555	299	374	215	285	254	313
	Arabic	408	-		115	165	23	37	-	- 205	33	57
	Consercial Geofraphy	409					-	- "	-	-	18	20
	Business English	410	÷	· ·	297	333	72	85	70	80	67	86
	Sociology-1	411	776	1. 101	1	1	236	360	194	308	234	334
	Social and Cultural Anthropology	412	-	-	38	60	18	37	29	40	27	36
	Sociology-11	413	÷.,	-	145	220	- <u>;</u>	1	25	38	29	45
	Demography	414	- 000		9	13	4	4	110	- 194	5	10 134
	Anditing Islamiat (Compulsory)	415	320 1, 713	349 2, 270	1, 135	1, 503	133 1.074	141 1, 472	118 1, 308	128 1.694	127 2, 569	3, 353
	Pakistan Studies (Coepulsory)	417	1, 755	2, 318	1, 155	1, 537	1,014	1, 498	1, 338	1, 743	2, 564	3, 366
	Ethics	418	13	17	1.155	1, 337	7	1, 450	1.000	8	10 -	22
	Education	419	762	1.141	-	-	561	862	480	712	536	840
	Business Wathematics and Statistics	421		-	559	606	237	251	253	284	417	458
	Organizing Library Resources	422	-	-	283	379	174	225	206	283	343	453
	Library Services	423	203	269	102	150	181	247	191	264	321	426
	Export Marketing and Management-I Export Marketing and Management-II	424	-	- }	12	13 11	21	23	1		15 · 6	17
	Pakistani Adab-II	425	-	- 1	134	225	- 49	73	11 35	11 49	34	6 55
	Pakistani Adab-I	420	- 40	58	134	220	49	47	25	35	22	29
	Food and Nutrition	428	- 10		105	219	21	"	23	00		23
116	Development Journalisp	430	-	-	596	756	102	127	114	145	104	122
117	Reporting	431	176	217	÷ .	2	50	59	38	54	55	64
118	Population Education	432	148	195	1	1	63	81	43	71	30	38
119	Iqbal's Persian Poetry	433	-	-	4	8	6	8	-		3	4
120	labal's Urdu Prose	434	-		39	57	-	1	22	33	20	31
121 122	Functional English Secrat-e-Tayyaba	435 436	2, 252 1, 201	2.982	1.470	1,949	1, 532 997	2,055	1, 686	2, 322	2, 933 1, 904	3, 859
	Islasic Studies	437	1, 201	1.615	- 2	2	997 649	1, 339 920	770 913	1, 228	993	1, 394 1, 400
	Advertising and Sales Promotion	439	219	245		. '	107	115	128	141	93	1,400
125	Principles of Insurance	440		- "	85	94	8	îĩ	-		12	13
126	Trade and transportation	441	101	117	-	-	47	49	52	56	22	23
127	Banking and Finance	442	-	-	206	222	93	102	144	156	109	123
128	Adab Ka Tanqueedi Kutalia	443	11	15	•	-	2	3	1	1	2	. 3
	One Pakistani Language	444	-	1	-	-					d D	
130 131	History of Urdu Adab Adab-e-Aaliya	445 446	328	482	- 54	- 73	3B 1	50 1	36	55	.78	98 10
132	Marketing Management	447	-411	451	2	. 13	235	254	198	211	148	157
	Industrial and Production Management	448	- "'	- 101	31	34	-	-	100		9	9
134	Kagazine Journalism	449	1	1	-	-	-	-	-	- 1	21	25
135	Public Relations	451	52	61	1	1	74	83	61	89	90	112
136	Mass Communication	452	•		82	102	56	71	79	104	83	102
137	Radio Broadcasting	453	50	54	-	-	42	46	32	37	33	38
138 139	T. Y Broadcasting Rook Editing	454	- 29	- 37	63 1	76	34	41 20	31 25	37 33	32 17	38 25
139	Business Compunication	455	334	37 371	1	1	219	20 241	25	33 217	17 281	307
	Community Development	458			110	160		- 110	200	14	201	307 10
142	Katerial Kanagement-L	459	-	-	274	299	54	60	49	52	72	78
143	Mercantile Law	460	-	-	86	98	1	1	53	59	39	41
144	Advertising	461	42	46	-	1	24	28	19	26	38	- 44
145	Cost Accounting	462		·	133	139	65	67	. 3	3	77	87
146 147	Fundamentals of Business	463	140	150	-	- 0.72	54	61	52	59	199	217
148	Islamic Figah Population and Development	465	-	• 1	1, 642 317	2, 274 439	189	242	340 18	436 22	374 21	500 29
	Ristory of Libraries with Reference to Pakistan	465	111	149	2	439	- 84	- 107	61	77	56	78
150	Classification or Catalouging	467		- 190	153	200	53	69	53	69	60	7
151	Fundamentals of Data Processing	469	-	-	131	146	17	18] . "	"	129	143
152	Principles of Marketing	470	-	-	3	4	. 1	ï	10	11	6	
100	Food & Nutrition	484					40	68	14	26 125	85	172
153 154		485							22		70	141

A-8-4

COURSE-VISE, COURSE ENROLMENT, ALLAKA IQBAL OPEN UNIVERSITY

S. No	COURSES	Code	Spring 92	1	Auturn -92	_	Spring-93		Autum-93	T	Spring-94	т
	IL A (EDUCATIONAL PLANNING AND NANAGEMENT)		<u>t</u>		1	<u> </u>			r			·
155	Basic Concepts of Educational Planning	501	144 177	r -	51	67	70	103	-	-	70	112
156	Process of Educational Planning	502			1	· 1	-	-	128	172	72	98
	Plan Implementation and Management	503	86 123	1	-	-	-	-	63	78	54	76
158	Curriculum Planning and Evaluation	504			134	173	-	- 1			34 39	41 51
	Economics and Financing of Education	505	62 92	2	1	1	-	-	35	48	24	36
	Development Education	506			107	142	-		- 48	65	29	38
	Educational Research and Statistics	507	41 59	'	1 72	1 90	-		40	- 00	27	43
	Educational Project Implementation & Management	508	10 12		2	80 4	_	. 1	7	7	2	4
	Term Paper/Field Study	509 510	1 3		1	5	-	-	1	3	ī	1
164	Research thesis/Projects Sub-total	010	344 465		370	484	70	103	282	373	352	500
	POPULATION EDUCATION											
165	Population Education for Secondary School	511	1 1	1	-	•	245	266	-	-	2	4
100	Teachers (Post-graduate level)											
	Sub-total		1 1	1		÷	245	266	·		2	
	POST-GRADUATE DIPLONA IN	. 1						· [
1	ENGLISH LANGUAGE TEACHING									_	1.	
	English Language Teaching-1	515	- ·	1	-	-			-		1	il
167	English Language Teaching-11	516	<u> </u>		-						2	2
i	Sub-total		······································									
	N. SC PARISTAN STUDIES	531	14 20	۸I	58	70	-	-	54	68	-	-
	Political & Constitutional Dev. in Pakistan	532		~	58	72	l -	-	52	66	-	- 1
169	Geography of Pakistan National, Provincial Languages & Their Literature	533	20 31	1		. ⁷ 1	- I	- 1	1	3	60	76
	Economic Development in Pakistan	534	14 18		-		1 -	-	-	í	59	76
	Pakistani Society and Culture	535		-	273	332	- 1	~ }	-	-	264	367
	Foreign Policy of Pakistan	536			263	319	-	-	-	-	245	337
174	Ideological Foundation of Pakistan	537		}	259	312	<u>ا</u> -	-	-	-	235	333
175	Genesis of Pakistan Novenent	538		1	261	314	1 - 1	-		· _	231	325
176	Research Kethods-I	539			6	7	-	-	43	54	-	-
177	Social Change	541			59	70	-	-	54	70	-	-
178	Social Theory-I	542			1	1	1			53	_	_
179	Social Theory	543			5	7	·	-	44 53	69 i		
180	Political Parties & Pressure Groups in Pakistan	545		- í	57	68	-	-	55	v•		
181	Research Methods-11	546			- 3	- 3		_		6	14	14
182	Thesis	547	48 69	<u>.</u>	1, 303	1, 576			305	390	1, 109	1.528
- <u> </u>	Sub-total		48 69	19	1, 303	1,010	+					
100	TEACHING OF ENGLISH AS A FOREIGN LANGUAGE Psycholinguistics and Sociolinguistics	551	142 22		-	-	l .	-	-	-	195	309
	Phonology and Granner	552	140 214		- ·	-	-	-	-	-	181	286
	The Language Skills	553		Ĩ.	108	170	· ·	-	-	-	-	-
	EFL in the Class room	554			99	161	· ·	-		· ·		1
100	Sub-total	1	282 43	19	207	331		-			376	596
	N.A. (TEFL)	1						107		_	-	
	Educational Psychology & the Management of Learning	555					72	107	-		- 1	1
	Language Variation & Stylistics	556		1			71	106	56	86	- ^	_ ^
	Semantics, Discourse Analysis	557	\$					-	56	86	-	-
	English for Specific Purposes	558 559					_	_	-	- "	46	69
191		560					-	-	-	-	44	67
192	Studies & Projects in Language Teaching Sub-total	1000					143	213	112	172	91	137
- <u>}</u>	MASTER OF BUSINESS ADMINISTRATION (IBA)	-		-			1		[
1 193	Introduction to Behavioural Sciences	521]		-	-			1		101	644
	Business Mathematics and Statistics	523			103	111		130			194	204
	Research Methods and Techniques	524		1	262	276		1	315	328	725	- 765
196	Business Comunication	525			-	-	943	991 16	362	378	604	639
	Principles of Management	526			280	295 289		10	302	341		
	Personnel Management	527			274	269		918	3	3	686	726
	Financial Accounting	528			2	2		811	-	- 1	-	•
200		530				- 4	52	53	67	73	76	86
201		561	· ·	l	1	1		806	1 • ~	-	621	658
	Narketing Theory and Practice	562			106	114		123	- 1	- 1	183	194
		563		1	104	112		119	-	-	181	192
20	Operation Research	564			68	- 71	84	92	100	113		.*
	S Management Analysis & Organizational Development	565			88	93	82	89	96	108		
20		566		ł	103	110		121	-	•	191	201
20		567	4	8	64	61		88		107	· -	-
20		568			257	271		3	317	330		-
21	0 Project Appraísal	569		ļ	91	99		82		108	87	- 96
21	Production Management	570			•		50	51		68 65	81	. 88
21	2 Transfer of Technology	571		1	26	2		54 50		67	78	86
21	3 Energy Management	572			25	- 21	6 49 9	50 9		- 24	46	51
	4 Warketing Wanagement	573				-	9	. 8		24	47	52
	5 International Marketing	574			-	<u> </u>	11	11		23	47	52
21	6 Advertizing & Sales Propotion	575		Í	-	-	11	11		20	49	54
21	7 Narketing Research	578			-		10	11		13	20	21
21	8 Investment & Security Analysis	577		l	_	-	11	12		12	20	21
	9 International Financial Management 0 [Corporate Planning & Financial Megotiation	579			-	· _	10	11		12		21
22		580		- 1		-	13	14	12	12	20	21
120	1 Auditing Sub-total	-1-55	4	8	1, 857	1, 96		4.687	2, 094	2, 227	3, 976	4, 228

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A-8-5

COURSE-WISE, COURSE ENROLMENT, ALLAMA IQBAL OPEN UNIVERSITY

S. No	COURSES	Code	Spring		Autuon-		Spring-		Autum-		Spring-	
	IL ED(DTPLOKA, IN SPECIAL EDUCATION)		X	1	X	T	<u> </u>	T	<u>X</u>	<u> </u>	<u> </u>	T
222	Planning for Population Education	584									26	32
							~	- 1	-	-		
	Functional Psychology	671		Í		1	-	•	-	-	149	199
	Perspective of Special Education	672				í	-	-	-	-	137	185
	Randicapped Person in Community	673		1			-	-	-	- [132	177
	Braille System Practical Course in Urdu	674				4	-	-	-	- [10	15
	Practical Component	675					-	-	41	63		-
228	Independence Training for Visually Nandicapped Children	677					-	-	· -	-	82	104
229	Curiculum development for Visually Handicapped	679					-	-	-	-	33	. 46
230	General Introduction to Rearing Impairment	680					-	-	-	1	51	75
	Sub-total							-	41	63	620	833
	B. ED COURSES		••			·						
231	Perspective of Educational Management	512	4, 574	6, 239	-	-	4, 203	5.817	-		-	-
232	School Organization and Kanagement	513	4, 547	6, 182	-	-	4, 214	5, 829	-	-	-	-
	Evaluation, Guidance and Research	514	4, 558	6, 188	_	_	4, 281	5, 914	_	_	_	<u>.</u>
234	Teaching of Pakistan Studies	517			- 1	1	2, 024	2, 861	-		2, 119	2, 999
			1, 116	1.382	1	•			-	-	2, 119	2, 999
235	Educational Psychology and Curriculum	518	4, 552	6, 181	-	·	4, 349	5, 988	-	-	·	
236	Teaching of English	539	4, 377	5, 410	1	11	755	1.030	-	- ·	561	777
	Teaching of Biology	520	228	272	-	-	1, 271	1, 512	•	-	452	667
	English (C)	651	1	1	3, 947	5, 335	1	i	3, 840	5.266	1	1
239	Islan, Pakistan and Kodern Vorld	652	1	1	3,902	5.281	-	-	3, 673	5, 043	-	-
240	Teaching of Chemistry	653					-	-	-	-	280	393
	Teaching of Islamiat	654					2,095	3, 091	-	- 1	2, 147	3, 111
	Forkshop & Teaching Practice	655	5.640	6, 963	3, 897	5, 291	131	190	3.649	5, 607	90	131
243	Teaching of Physics	656			2.007		1, 264	1.485	-		826	942
	Teaching of General Science	657					264	438	-	_	405	640
245	None Economics & its Teaching	660					204	400	-		400	040
							•	- 1	-	-		1
	Teaching of Mathematics	661			1	1.000	-	-	-		643	730
<u>herr</u>	Prevention of Drug Abuse	662			1,081	1;895.			1, 263	1,962		3
	Sub-total	<u> </u>	29, 594	38, 819	12, 829	17,804	24, 852	34, 156	12, 425	17.278	7, 524	10, 395
1	X.Ed (Diplome in Special Education)			1								
	Educational Psychology	671	-	-	-	-						
	Perspectives of Special Education	672	-	- 1	-	1				1		
250	Kandicapped Person in the Community	673	-	- 1	1	1						
251	Braille system Practical course in Urdu	674	-	-	53	77						
252	Practical Component	675	10	12	-	-						
253	Braille System	676	-	-	31	37						
	Independence Training for the Visually Handicapped	677	-	-								
255	Special Education for Visually Handicapped	678	-	-	31	37						
256	General Introduction to Rearing Impairment	680	_		1	1		1				
257	Psychology of Deaf & Child Development	681			22	41						
	Speech & Hearing				22	41						
		682	-	-								
209	Audiology & Audiopetry	683	- 10	- 10	22	41						
	Sub-total		10	12	183	277						
	PRIMARY TEACHER CERTIFICATE (PTC)	ا شا										
	Principles and Methods of Teaching	601	-	-	1	. 1	· ·			·		
	Primary Education and Curriculum	609	-	-	-							
	Workshop & Teaching Practice	611	3, 986	6, 114	925	1.502	3	9	1, 031	2,397	3.745	5, 658
	Principles of Education	613	-	-	1, 337	2, 958	4, 429	6, 624			21, 402	44, 705
	Educational Psychology	614	-	-	1, 335	2, 955	4, 432	6, 627	-	-	21,405	44, 722
265	School organization	615	-	-	1, 336	2, 955	4, 420	6. 620	-	-	21, 393	44, 710
265		616	-									
	School Community & Practical Arts				1, 315	2, 913	4.434	6, 629	1	1		44.710
267	Teaching of Urdu	617	925	1, 502	1, 315	2, 913			1 3, 720		21, 411	
	Teaching of Urdu	617 618	925 924	1, 502 1, 501	-	-	1,016	2, 372	1 3, 720 3, 711	5,619	21, 411	44.710
		618	924	1.501	1, 315 - 20	2, 913	1,016 1,018	2, 372 2, 375	3, 711	5, 619 5, 604	21, 411	44.710
268 269	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education	618 619	924 924	1.501 1.501	- 20	- 41 -	1, 016 1, 018 1, 011	2, 372 2, 375 2, 362	3, 711 3, 698	5, 619 5, 604 5, 590	21, 411	44.710 3 2
268 269 270	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Islamiat and school Studies	618 619 620	924	1.501	-	-	1,016 1,018	2, 372 2, 375	3, 711	5, 619 5, 604	21, 411	44.710 3 2
268 269 270 271	Teaching of Urdu Teaching of Mathoratics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy	618 619 620 624	924 924	1.501 1.501	- 20 - 1 -	41	1, 016 1, 018 1, 011	2, 372 2, 375 2, 362	3, 711 3, 698	5, 619 5, 604 5, 590	21, 411	44.710 3 2
268 269 270 271	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Islamaiat and school Studies Teaching of Literacy Intercediate New FIOC Orientation Course	618 619 620	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 - 1 	41 1 551	1, 016 1, 018 1, 011 1, 014	2, 372 2, 375 2, 362 2, 368	3, 711 3, 698 3, 703	5, 619 5, 604 5, 590 5, 593	21, 411	44. 710 3 2 2
268 269 270 271	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy Intercediate New PIOC Orientation Course Sub-total	618 619 620 624	924 924	1.501 1.501	- 20 - 1 -	41	1, 016 1, 018 1, 011	2, 372 2, 375 2, 362	3, 711 3, 698	5, 619 5, 604 5, 590	21, 411	44.710 3 2
268 269 270 271 272	Teaching of Undu Teaching of Mathoeatics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy Intercediate New PTOC Orientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC)	618 619 620 624 650	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 - 1 	41 1 551	1, 016 1, 018 1, 011 1, 014 21, 777	2, 372 2, 375 2, 362 2, 368 35, 986	3, 711 3, 698 3, 703	5, 619 5, 604 5, 590 5, 593	21, 411 - - - 89, 356	44. 710 3 2 2 184, 512
268 269 270 271 272	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and School Studies Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEW)	618 619 620 624	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 - 1 	41 1 551	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315	3, 711 3, 698 3, 703 15, 864	5, 619 5, 604 5, 590 5, 593	21, 411 	44. 710 3 2 2 184, 512 7, 247
268 269 270 271 272	Teaching of Urdu Teaching of Matheeatics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy Intercediate New PTOC Orientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEW) Sub-total	618 619 620 624 650	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 - 1 	41 1 551	1, 016 1, 018 1, 011 1, 014 21, 777	2, 372 2, 375 2, 362 2, 368 35, 986	3, 711 3, 698 3, 703	5, 619 5, 604 5, 590 5, 593	21, 411 - - - 89, 356	44. 710 3 2 2 184, 512
268 269 270 271 272 273	Teaching of Urdu Teaching of Mathoeatics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy Intercediate New PIOC Orientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEW) Sub-total CERTIFICATE OF TEACHING (CT)	618 619 620 624 650 650	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 - 1 	41 1 551	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315	3, 711 3, 698 3, 703 15, 864	5, 619 5, 604 5, 590 5, 593	21, 411 	44. 710 3 2 2 184, 512 7, 247
268 269 270 271 272 273 273	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Istanaiat and school Studies Teaching of Istanaiat and school Studies Teaching of Istanaiat and school Studies Teaching of Istanaiat Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTCC (HET) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education	618 619 620 624 650 650 650	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501	20 1 	41 1 551 13. 877	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315 4, 315	3, 711 3, 698 3, 703 15, 864	5, 619 5, 604 5, 590 5, 593 24, 804	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247
268 269 270 271 272 273 273 274 274	Teaching of Urdu Teaching of Matheeatics Teaching of Science and Physical Education Teaching of Islamiat and school Studies Teaching of Literacy Intercediate New PIOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NET) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching	618 619 620 624 650 650 603 604	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501 12, 120	20 1 	41 1 551 13. 877	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684	2, 372 2, 375 2, 362 2, 368 <u>35, 986</u> <u>4, 315</u> <u>4, 315</u> 1, 132	3, 711 3, 698 3, 703 15, 864 - - J, 299	5, 619 5, 604 5, 590 5, 593 24, 804 	21, 411 	44. 710 3 2 2 184, 512 7, 247
268 269 270 271 272 273 273 274 275 276	Teaching of Urdu Teaching of Matheesatics Teaching of Science and Physical Education Teaching of Istamaiat and school Studies Teaching of Istamaiat Teaching of Isteracy Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTCC) PTOC (NET) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching	618 619 620 624 650 650 603 604 605	924 924 924 - 1	1. 501 1, 501 1. 501 1. 501 12. 120	20 1 	41 1 551 13. 877	1, 016 1, 018 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684 672	2, 372 2, 375 2, 362 2, 368 <u>35, 986</u> <u>4, 315</u> 4, 315 1, 132 948	3, 711 3, 698 3, 703 15, 864 - - - 1, 299 1, 305	5, 619 5, 604 5, 590 5, 593 24, 804 - - - 1, 782 1, 742	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247 2
268 269 270 271 272 273 273 274 275 276 277	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTCC (NET) Sub-total CERTIPICATE OF TEACHING (CCT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Home Economics & its Teaching	618 619 620 624 650 650 603 604 805 806	924 924 924 - 1	1, 501 1, 501 1, 501 1, 501 12, 120	20 1 - 270 - 6. 541 - 2 1	41 1 551 13. 877	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684	2, 372 2, 375 2, 362 2, 368 <u>35, 986</u> <u>4, 315</u> <u>4, 315</u> 1, 132	3, 711 3, 698 3, 703 15, 864 - - J, 299	5, 619 5, 604 5, 590 5, 593 24, 804 	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247
268 269 270 271 272 273 273 274 275 276 277	Teaching of Urdu Teaching of Matheesatics Teaching of Science and Physical Education Teaching of Istamaiat and school Studies Teaching of Istamaiat Teaching of Isteracy Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTCC) PTOC (NET) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching	618 619 620 624 650 650 603 604 605	924 924 924 - 1 7, 686 - - - - -	1. 501 1, 501 1. 501 1. 501 12. 120	20 1 	41 1 551 13. 877	1, 016 1, 018 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684 672	2, 372 2, 375 2, 362 2, 368 <u>35, 986</u> <u>4, 315</u> 4, 315 1, 132 948	3, 711 3, 698 3, 703 15, 864 - - - 1, 299 1, 305	5, 619 5, 604 5, 590 5, 593 24, 804 - - - 1, 782 1, 742	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247 2
268 269 270 271 272 273 273 274 275 276 277 278	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTCC (NET) Sub-total CERTIPICATE OF TEACHING (CCT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Home Economics & its Teaching	618 619 620 624 650 650 603 604 805 806	924 924 924 - 1 7, 686 - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 - 270 - 6. 541 - 2 1	41 1 551 13.877 2 1	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 2, 555 684 672 3	2, 372 2, 375 2, 362 2, 368 <u>35, 986</u> <u>4, 315</u> 4, 315 1, 132 948 267	3.711 3.698 3.703 15.864 - - 1.299 1.305 2 108	5, 619 5, 604 5, 590 5, 593 24, 804 - - 1, 782 1, 782 1, 742 1, 742 1, 742 1, 742 1, 742	21, 411 - - - - - - - - - -	44. 710 3 2 2 184. 512 7. 247 7. 247 2 2 2
268 269 270 271 272 273 274 275 276 276 277 278 279	Teaching of Urdu Teaching of Matheeatics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NET) Sub-total CERTIFICATE OF TEACHING (CT) Frondation of Education Urdu and its Teaching Social Studies & its Teaching Nome Economics & its Teaching Science & its Teaching	618 619 620 624 650 650 603 604 605 606 607	924 924 924 - 1	1. 501 1, 501 1. 501 1. 501 12. 120	20 1 - 270 6.541 - 2 1 - ,	41 1 551 13.877 2 1 i	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684 672 3 87	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315 4, 315 4, 315 1, 132 948 267 112	3, 711 3, 698 3, 703 15, 864 - - J, 299 1, 305 2	5, 619 5, 604 5, 590 5, 593 24, 804 - - 1, 782 1, 782 1, 742 184	21, 411 - - - - - - - - - - - - - - - - - -	44. 710 3 2 184, 512 7, 247 7, 247 2 2 1, 963
268 269 270 271 272 273 274 275 276 277 278 279 280	Teaching of Urdu Teaching of Watheratics Teaching of Science and Physical Education Teaching of Science and School Studies Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTCC (NET) Sub-total CERTIFICATE OF TEACHING (CC) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Science & its Teaching Science & its Teaching Vorkshop & Its Teaching Disensions in Education	618 619 620 624 650 650 650 603 604 805 604 805 606 607 612 631	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 - 270 - 6.541 	41 1 551 13.877 2 1 i i 1.522	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 684 672 3 87 1, 704	2, 372 2, 375 2, 365 2, 368 35, 986 4, 315 4, 315 1, 132 948 267 112 2, 393	3, 711 3, 698 3, 703 <u>15, 864</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>	5, 619 5, 604 5, 590 5, 593 24, 804 	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247 2 2 1, 963 15, 492
268 269 270 271 272 273 273 274 275 276 277 278 279 279 279 279 279 279 279 279 279 279	Teaching of Urdu Teaching of Matheeatics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEN) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Nome Economics & its Teaching Science & its Teaching Vorkshop & Its Teaching Vorkshop & Its Teaching Dimensions in Education Educational Psychology	618 619 620 624 650 650 650 603 604 805 806 806 607 612 631 632	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 -270 6.541 - 2 1 - 1 921 921	41 1 551 13.877 2 1 1 1.522 1.524	1, 016 1, 018 1, 011 1, 014 21, 777 2, 555 2, 555 2, 555 684 672 3 87 7 1, 704 1, 693	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315 4, 315 1, 132 948 948 948 948 948 948 948 948 948 948	3, 711 3, 698 3, 703 15, 864 - - 1, 299 1, 305 2 108 734 - 2	5, 619 5, 604 5, 590 5, 593 24, 804 	21, 411 	44. 710 3 2 2 184, 512 7, 247 7, 247 7, 247 2 2 2 1, 963 15, 492 15, 683
268 269 270 271 272 273 273 274 275 276 277 278 279 280 281 282	Teaching of Urdu Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Islamaiat and school Studies Teaching of Islamaiat and school Studies Teaching of Islamaiat Sub-total Sub-total Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Social Studies & its Teaching Socials Sub its Teaching Biomesions in Education Educational Psychology School Organization	618 619 620 624 650 650 603 604 805 806 607 612 631 632 633	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 - - 270 6.541 - 2 1 - 921 921 920	41 1 551 13.877 2 1 1.522 1,524 1,522	1,016 1,018 1,011 1,014 21,777 2,555 2,555 684 672 3 87 1,704 1,693 1,683	2, 372 2, 375 2, 368 35, 986 4, 315 4, 315 4, 315 1, 132 948 267 112 2, 393 2, 375 2, 368	3, 711 3, 698 3, 703 15, 864 1, 299 1, 305 2 108 734 - 2 1	5, 619 5, 604 5, 593 24, 804 - - 1, 782 1, 782 1, 742 1, 742 1, 742 1, 742 1, 239 - 2 1	21, 411 - - - - 4, 340 4, 340 - - - - - - - - - - - - - - - - - - -	44. 710 3 2 184, 512 7, 247 7, 247 7, 247 2 2 1, 963 15, 492 15, 683 15, 485
268 269 270 271 272 273 274 275 276 2776 2776 2776 2776 2776 2776 2	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Literacy Intercediate New PTOC Grientation Course Sub-total PRIEARY TEACHERS ORIENTATION COURSE (PTOC) PTCC (NET) Sub-total CERTIFICATE OF TEACHING (CC) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Social Studies & its Teaching Science & its Teaching Science & its Teaching Biomations in Education Educational Psychology School Organization Ifeaching of English	618 619 620 624 650 650 603 604 805 606 607 612 631 632 633 634	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 -270 6.541 - - 2 1 - 921 921 920 1	41 1 551 13.877 2 1 1.522 1.524 1.524 1.522 2	1,016 1,018 1,011 1,014 21,777 2,555 2,555 684 672 3 87 1,704 1,693 1,689 729	2, 372 2, 372 2, 362 2, 362 2, 368 35, 966 4, 315 4, 315 4, 315 1, 132 948 267 112 2, 393 2, 375 2, 368 1, 224	3, 711 3, 698 3, 703 <u>15, 864</u> <u>-</u> <u>-</u> <u>-</u> <u>1, 299</u> <u>1, 305</u> <u>2</u> <u>108</u> <u>734</u> <u>-</u> <u>2</u> <u>1</u> <u>1, 359</u> <u>-</u> <u>1, 359</u>	5, 619 5, 604 5, 604 5, 593 24, 804 - - 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 239 - 2 1, 935	21, 411 	44. 710 3 2 2 184. 512 7, 247 7, 247 7, 247 2 2 1, 963 15, 492 15, 683 15, 485
268 269 270 271 272 273 274 275 276 2776 2776 2776 2776 2776 2776 2	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Istamiat and school Studies Teaching Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEN) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching None Economics & its Teaching Sione Economics & its Teaching Siones Economics & its Teaching Siones Economics & its Teaching Sience & its Teaching Dispositions in Education Educational Psychology School Organization Teaching of English Islamiat and its Teaching	618 619 620 624 650 650 650 603 604 805 806 607 612 631 632 633 634 635	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 - - 270 6.541 - 2 1 - 921 921 920	41 1 551 13.877 2 1 1.522 1,524 1,522	1,016 1,018 1,011 1,014 21,777 2,555 2,555 684 672 3 87 1,704 1,693 1,683	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315 4, 315 1, 132 948 267 112 2, 393 2, 375 2, 368 1, 224 1, 180	3, 711 3, 698 3, 703 15, 864 1, 299 1, 305 2 108 734 - 2 1	5, 619 5, 604 5, 503 5, 593 24, 804 - - 1, 782 1, 782 1, 742 1, 742 1, 742 1, 239 - 2 1 1, 935 1, 863	21, 411 - - - - 4, 340 4, 340 - - - - - - - - - - - - - - - - - - -	44. 710 3 2 184, 512 7, 247 7, 247 7, 247 2 2 1, 963 15, 492 15, 683 15, 485
268 269 270 271 272 273 274 275 276 276 277 278 279 280 281 282 283 284 283 284	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Islamaiat and school Studies Teaching of Islamaiat and school Studies Teaching of Islamaiat and school Studies Teaching of Islamaiat Sub-total PRIMARY TEACHEES ORIENTATION COURSE (PTOC) PTOC (NET) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching Nome Economics & its Teaching Social Studies & its Teaching Dimensions in Education Educational Psychology School Organization Teaching of English Islamiat and its Teaching Sindhi & Its Teaching	618 619 620 624 650 650 603 604 605 606 605 606 605 606 607 612 631 632 633 634 635 637	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 270 6.541 - 2 1 - 921 921 920 1 22 - 1 - 2 - - - - - - - - - - - - -	41 1 551 13.877 2 1 522 1,522 1,524 1,524 2 3	1,016 1,018 1,011 1,014 21,777 2,555 2,555 2,555 684 672 3 87 1,704 1,693 1,683 1,683 1,683	2, 372 2, 372 2, 362 2, 362 2, 368 35, 986 4, 315 4, 315 4, 315 4, 315 1, 132 948 267 112 2, 393 2, 375 2, 368 1, 224 1, 180	3, 711 3, 698 3, 703 <u>15, 864</u> <u>-</u> <u>-</u> <u>-</u> <u>1, 299</u> <u>1, 305</u> <u>2</u> <u>108</u> <u>734</u> <u>-</u> <u>2</u> <u>1</u> <u>1, 359</u> <u>-</u> <u>1, 359</u>	5, 619 5, 604 5, 604 5, 593 24, 804 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 782 1, 935 1, 935 1, 863	21, 411 	44. 710 3 2 2 184. 512 7. 247 7. 247 7. 247 2 2 1. 963 15. 492 15. 683 15. 483 15. 483
268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285	Teaching of Urdu Teaching of Mathematics Teaching of Science and Physical Education Teaching of Science and Physical Education Teaching of Istamiat and school Studies Teaching Sub-total PRIMARY TEACHERS ORIENTATION COURSE (PTOC) PTOC (NEN) Sub-total CERTIFICATE OF TEACHING (CT) Foundation of Education Urdu and its Teaching Social Studies & its Teaching None Economics & its Teaching Sione Economics & its Teaching Siones Economics & its Teaching Siones Economics & its Teaching Sience & its Teaching Dispositions in Education Educational Psychology School Organization Teaching of English Islamiat and its Teaching	618 619 620 624 650 650 650 603 604 805 806 607 612 631 632 633 634 635	924 924 924 - - 7, 686 - - - - - - - - - - - - - - - - - -	1. 501 1, 501 1. 501 1. 501 12, 120	20 1 -270 6.541 - - 2 1 - 921 921 920 1	41 1 551 13.877 2 1 1.522 1.524 1.524 1.522 2	1,016 1,018 1,011 1,014 21,777 2,555 2,555 684 672 3 87 1,704 1,693 1,689 729	2, 372 2, 375 2, 362 2, 368 35, 986 4, 315 4, 315 1, 132 948 267 112 2, 393 2, 375 2, 368 1, 224 1, 180	3, 711 3, 698 3, 703 <u>15, 864</u> <u>-</u> <u>-</u> <u>-</u> <u>1, 299</u> <u>1, 305</u> <u>2</u> <u>108</u> <u>734</u> <u>-</u> <u>2</u> <u>1</u> <u>1, 359</u> <u>-</u> <u>1, 359</u>	5, 619 5, 604 5, 503 5, 593 24, 804 - - 1, 782 1, 782 1, 742 1, 742 1, 742 1, 239 - 2 1 1, 935 1, 863	21, 411 - - - - - - - - - - - - - - - - - -	44. 710 3 2 2 184. 512 7, 247 7, 247 7, 247 2 2 1, 963 15, 492 15, 683 15, 485

COURSE-WISE, COURSE ENROLMENT, ALLANA IQBAL OPEN UNIVERSITY

No	COURSES	Code	Spring-92	T	Autuan-92	T	Spring-93	T	Autumo-93 X	т	Spring-9 X	4 T
	ATC AND ALTC					· †					1, 150	1, 695
87	Arabic Teacher's Training Course	608	436	526	-	-	320	386	-		1, 150	1, 055
<u>68</u>	Arabic Lecturer Training Course	610	436	526			321	387	-		1, 152	1, 697
	Sub-total	· ·	430	320								
	Nethods of Teaching	594	-	-	-	-						
	Arabic Phonotics	595	-	-	-	-						
	Four Skills for Language Learning	596	-	-	-	-		1				
	Aids of Education	597	-		-	<u> </u>						
<u> </u>	Sub-total											
	K. PHIL IQBALIAT				74	97	_	. 1	41	52	-	-
93	Igbal's Intellectual and Artistic Development	701	-	-	75	97	-	-	37	47	-	-
94	The Basic Thoughts and Ideas of Allama Iqual	702	37	54	- 10	_ "	-	- 1	44	58	29	3
	Study of Selected Text of Iqbal's Prose & Poetry	704	29	48	-	- 1	-	-	44	57	28	3
96	Nethods of Research	104	66	102	149	194	-	-	166	214	57	?
	I. PRIL ISLANIAT											
07	Kethods of Research	711					-	- 1	40	45	-	-
900	Nethods of Research in Islam	712	-	-	80	98	-	-	37	42	-	- 3
99	Applied Research Methodology	713	49	61	1	1	-	-	57	68	29 36	4
00	Synopsis and Ribliography of Research in Islam	714	48	59	1	1	-	- 1	64	75	- 30 1	4
	Error / not offered	716							- 198	230	66	
	Sub-total		97	120	82	100	-		190	200		· · · ·
	IL PHIL VRDU				33	44	-		-	-	- 54	3
80	The Political & Cultural Background of Urdu Literature	721	-	-	37	47	-	-	-	-	46	
	Literary Novements and Critical Novements	722	- 38	- 45	1	"i	-	-	30	39	-	-
	Nethods of Teaching Literature	724	34	40	1	il	-	-	30	40	-	-
05	The Methods of Research Sub-total	164	72	85	72	93		-	60	79	100	1
	N. PHIL EDUCATION	1		ו								
ne.	Trends and Issues in Education	731	-	-	-	-	-	-	-	-	25	
07	Comparative Education	733	-	-	31	41						
101	Advanced Course on Non-formal Education	734	-	-	2	4	÷ '	-	27	48	36	
109	Advanced Course on Educational Management	735		-	-	-	-	-	-	-	- 6-	. "
10	Advanced Approaches and Curriculum Development	736	÷ .	-	-	- 1	-	•	- 17	21	8	
11	Advanced Course on Adult Basic Edu. & Literacy	737					-	-	17	61		
312	Advanced Course on Educational Planning	738	-	-	-	-			_	-	8	
	Teaching Strategies (Teaching Education)	739	• •		- 6	, e	-	_	28	47	35	
	Educational Technology	740	1	1	1 1	4	_	-	2	4	16	
	Distance Education	741	- 1	- 1	<u>'</u>	. '	-	-		- 1	2	
316	Advanced Methods of Testing	742	•	1	1		-	-	-	-	5	
317		744	-	-	6	8	-		. 11	13	·	
318	Thesis Sub-total		2	2	46	65	-	-	85	133	141	
	COMPUTER SCIENCE									ĺ		
319		901	750	794	-	-	-	~	-	-	265	2
320		902	750	794	1	1	•	-	-	-	265	ŝ
321	Operating Systems	903	750	794		1	-	-	-		266	ŝ
322		904	750	794	1 1	1		-	l -	-	200	
	Spread sheet Applications)		407	607		_	1	-	1 -	-	156	1
323		905	467	507 507			-	-	-	-	155	
324	Programming with "C Language"	906 907	467 467	507	1 .	-	-	-	-	-	155	
325		908	466	506	-		l .	-	-	-	154	
328	Programming with PASCAL Sub-total	1900	4, 867	5, 203	3	3	-	-	-	-	1.681	1.1
0.07		711	1	1	76	93					L	
327	Sub-total		1	1	76	93			· ····		<u> </u>	
	DIPLORA IN CONPUTER RAINTENANCE				T						21	
379	Fundamentals of Electricity & Electronic Concept	911			1		-	-	-	-	21	
329		912	1		1		1 -	-		-	21	
331		913			I.		1 -	-		-	21	
33		914	4		l I		-	-		-	12	
33	2 Computer Peripherels Maintenance	915	1		1		1 -		1	-	11	
33		916					1	-		_	i ii	
33		917	l .		1			-		-	1 ii	
33		918	<u> </u>				+		+		129	
- 30	Sub-total											

8-3 Course-wise Cumulative Enrolment, Ap pear. Pass, Pass Percentage and Dropout Rate COURSE-WISE, CUMMULATIVE ENROLMENT, APPEAR, PASS, PASS PERCENTAGE & DROP-OUT-RATE FROM 1975-76 TO SPRING 1991

S. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-out rate(%) age.
	FUNCTIONAL(NON-CREDIT)						
1	Summer Vegetable Growing	101	6, 131	-	-	-	
2	Winter Vegetable Growing	102	4, 518	-	-	-	
3	Soil Problems and their Remedies	103	1.817	-	-	- '	-
4	Plant Protection	104	2, 283	-	- 1	-	-
5	Poultry Farming	105	5, 854		-	·	-
6	Tractor Repair and Maintenance	106	1, 525	. –	_	-	-
7	Sheep and Goat Husbandry	107	583	- 1	-	-	-
8	Elementary Arabic	110	24, 861	9, 934	8,863	89	. 60
9	Daftri Urdu for Federal Government Officers	111	8,806	2,655	2, 578	97	70
10	Arabic Bool Chall(*)	114	36	-		1	
11	Daftri Urdu for Provincial Government Officers	115	1, 353	390	381	98	71
	Sub-total		57, 767	12, 979	11, 822	91	78
1	PROJECTS/FOUNDATION COURSES						
	Integerated Functional Education Project(IFEP)(*)	-	6,671	-	-		-
	Foundation Courses	-	501	92	29	32	82
14	Functional Education Programme for Rural		8, 577	-	- 1	-	-
	Areas (FEPRA)/Basic Functional Education Programme(BFEP)(*)			ļ.			
15	Integeratged Functional Literacy Programme(*)	-	1, 231	-	~	-	- 1
16	MA English	-	80	44	31	70	45
1	MA Persian	-	11	11	11	100	- 1
1	MA German	-	10	9	8	89	10
19	MA French	-	10	9	8	89	10
	Diploma in Arabic	-	79	77	76	99	3
21	Certificate in Arabic	-	139	129	115	. 89	7
	Sub-total		17, 309	371	278	75	98

(*) Course not offered/result is not available.

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S. No	COURSES		Enrol- ment	Appear- ed	Passed	Pass	Drop-out rate(%) age.
	VOMEN'S EDUCATION WATRIC PROJECT						59
	Selling of Home Made Products	200	1, 261	519	322	62	59 66
	lslamiat	201	6, 578	2, 239	1, 786	80	61
24	Pakistan Studies	202	6, 063	2, 392	1, 348	56	61
	General Science	203	5, 355	2, 114	833	- 39	
	Urdu for Daily Use	204	6, 867	2, 416	1,874	78	65
27	Arabic	205	357	80	52	65	78
	Family Health Care	206	4, 625	1, 598	1, 229	77	65
	Functional English-1	207	4, 576	1, 799	832	46	61
	Garment Naking-1	208	4,670	1, 382	892	65	70
	General Home Economics	209	4, 389	1, 689	1,052	62	62
32	Garment Making-11	210	3, 039	1,013	665	66	67
33	Poultry Farming	211	655	351	264	.75	46
34	Naintenance of Home Electrical Appliances(*)	212	2	-	-	-	-
35	Sindhi	213	398	88	87	99.	78
	General Arithmetic	214	4,800	1, 683	1,034	61	65
37	Education(*)	215	2	~	-	-	
38	Food and Nutrition(*)	217	1 1	-	-	-	
39	First Aid-I	218	664	195	141	72	71
40	First Aid-II(*)	220	4	4	-	-	· · ·
	Functional English	221	3, 154	1,060	244		
-41	Sub-total		57,460		12,655	61	64

(*) Course not offered/result is not available.

S. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-ou rate(%) age.
	INTERNEDIATE COURSES	·····				<u></u>	
42	Daftri Urdu	301	13, 835	6.434	4, 897	76	53
43	Urdu	302	65, 349	38, 620	30.093	78	41
44	lqbaliat	303	21, 527	13, 975	10, 988	79	35
45	Pakistan Studies(Elective)	304	36.512	22, 927	16, 553	72	37
	Rural Development	305	9, 550	5. 277	3, 637	69	45
	Food and Nutrition	306	31, 167	20, 448	16, 491	81	34
	Electrical Wiring	307	32, 968	2, 438	10,451	54	93
	General Science	308	18, 915	10.861	7, 910		
	Arabic	308	5, 122			73	43
	English			2, 392	1, 918	80	53
	Book Keeping and Accountancy	310	52, 298	38, 129	15, 947	42	27
	Education	311	5, 723	1,068	329	31	81
	Dairy Husbandry	312	21,000	13, 870	9, 209	66	34
		313	3, 251	1, 969	1, 577	80	39
	Electrician	314	7, 940	846	280	33	89
	Economics	315	10, 122	1,449	862	59	86
	Islamiat(Compulsory)	316	59, 542	36, 481	30, 669	84	39
	Pakistan Studies(Compulsory)	317	60, 539	37, 880	26, 995	71	37
	Sindhi+Easy Urdu	318	595	274	219	80	54
	Ethics	319	466	119	75	63	74
61	Sindhi Bool Chall(*)	320	3	-] -	-
	Muslim History of Sub-continent	321	5, 763	3, 528	2,425	69	39
63	Secretarial Practice	322	655	312	250	80	52
64	Mathematics-1	323	272	. 59	29	49	78
65	Farm Inccome Generating Skill	326	1,230	563	530	94	54
66	Improved Methods of Oil Seed Crops	328	1.396	941	845	90	33
67	Child Care and Development	330	13, 380	10. 350	8, 565	83	23
68	Statistics	331	379	50	18	36	87
69	Auto Servicing	332	1,034	214	130	61	79
	English Typewriting(Elementary)	333	11,644	225	130	62	98
	English Typewriting(Advance)(*)	334	223		140		100
	English Shorthand(Elementary)	335	10, 696	229	117	51	98
	English Shorthand(Advance)	336	1, 220	392	260	66	68
	Urdu Typewriting(Elementary)(*)	337	1, 220		200		
	Urdu Typewriting(Advance)(*)	338	1, 535	_		-	
	Urdu Shorthand(Elementary)(*)	339	975	·	-	-	_
	Urdu Shorthand(Advance)(*)	340	2		-	-	- 1
	Maintenance of Household Electrical Appliances	341		-	- 100	- 00	- 70
	Improved Methods of Fruit Production	341	808	177	122	69	78
	Islamiat(Elective)	342	4,624	2,766	2, 512	91	40
	Basic Electronics		19,076	14,631	12,070	82	23
	Home Management	344	1,462	272	168	62	81
		345	1,607	1,087	900	83	32
-	Principles of Commerce	346	947	362	248	69	62
	Banking	347	2, 776	148	98	66	95
	Commercial Geography(*)	348		· · · · · · · · · · · · · · · · · · ·	-	-	-
86	Primary Teacher's Orientation Course	602	487	247	216	87	49
	Sub-total		538, 495	292,010	209,609	72	46

(*) Course not offered/result is not available.

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5. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-ou rate(%) age.
	B. A. COURSES						
	Accountancy	401	9, 189	2, 574	1, 238	48	72
	Economics	402	14, 256	5, 432	3, 394	62	62
	Pakistan Studies(Elective)	403	21, 274	12,689	10, 850	86	40
	Urdu	404	23, 894	14, 360	12,476	87	40
	lgbaliat	405	10,945	8,022	6,826	85	27
92	Economics of Pakistan	406	6, 903	4, 579	3, 813	83	34
93	History of Wodern Muslim World	407	10.605	6, 932	6,007	87	35
	Arabic	408	1, 195	403	222	55	66
	Business English	410	15, 658	5, 778	3, 884	67	63
1	Sociology-I	411	11, 399	8,525	5, 753	67	25
97	Social and Cultural Anthropology	412	466	296	275	93	36
	Sociology-11	413	1, 464	896	805	90	39
	Demography	414	180	81	70	86	55
	Auditing	415	2, 517	845	677	80	66
	Islamiat(Compulsory)	416	37, 943	21,669	19, 392	89	43
102	Pakistan Studies(Compulsory)	417	37, 996	21, 519	16, 885	78	43
102	Ethics	418	255	102	88	86	60
	Education	419	12, 358	7,718	5, 588	72	38
	Business Mathematics and Statistics	421	6,093	1, 496	713	48	75
100	Organizing Library Resources	422	3, 585	1,770	1,271	72	51
	Library Services	423		1, 835	1,672	91	4
100	Export Marketing and Management-1	424	5, 495	1,740	1,094	63	61
108	Export Marketing and Management-11	425	2, 429	786	552	70	6
		426		4, 207	3, 576	85	2
	Pakistani Adab-1	427		1, 361	1, 160	85	3
	Pakistani Adab-l	428		1, 421	1, 156	81	41
	Food and Nutrition	430		581	495	85	41
113	Development Journalism	431		309	275	89	55
	Reporting	432		3, 129	2,607		. 73
	Population Education	433			244	95	30
	Iqbal's Persian Poetry	434		1, 257	1, 137	90	2/
117	Iqbal's Urdu Prose	434		14, 552			4
	Functional English	435		9, 522			3
	Seerat-e-Tayyaba	430				1	3
	Islamic Studies	439					1 7
	Advertising and Sales Promotion	439					
	Principles of Insurance	441					1
	Trade and transportation						
	Banking and Finance	442					
	Adab Ka Tanqueedi Mutalia	443		1			
	History of Urdu Adab					1	
	Adab-e-Aaliya	446					
128	Marketing Management	447					
	Industrial and Production Management	448			1	1	1
130	Public Relations	451					- L
131	Mass Communication	452					
	Radio Broadcasting	453					1
133	Book Editing	45					
134	Business Communication	45					
135	Material Management-I	459				1	
136	Mercantile Law	460					
137	Advertising	46				1	
138	Cost Accounting	46			2 177	73	3 '
139	Fundamentals of Business(*)	46		3 -	-	,	-
140	Islamic Figah	46			2,008	3 89	9
1141	Population and Development(*)	46		1 -	–	_ -	
149	History of Libraries with Reference to Pakistan	46					
149	Classification or Catalouging	46					
140	Sub-total		337, 900	3 182, 166	3 141, 877	7	3

(*) Course not offered/result is not available.

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S. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-out rate(%) age.
	N. ACEDUCATIONAL PLANNING AND MANAGEMENT)		ment	eu		(a)age	age.
	Basic Concepts of Educational Planning	501	2, 572	1,064	720	68	59
	Process of Educational Planning	502	1,005	629	480	76	37
	Plan Implementation and Management	502	953	519	431	83	46
147	Curriculum Planning and Evaluation	503	953	481	431	87	32
	Economics and Financing of Education	504	730	439	377	86	40
	Development Education	505	668	439	307	82	
	Educational Research and Statistics						44
		507	428	318	268	84	26
101	Educational Project Implementation & Management	508	373	207	193	93	45
	Term Paper/Field Study	509	164	10	10	100	94
153	Research thesis/Projects	510	165	57	57	100	65
	Sub-total		7, 769	4, 098	3, 262	80	47
	N. SC PAKISTAN STUDIES						
	Political & Constitutional Dev. in Pakistan	531	183	20	18	90	89
	Geography of Pakistan	532	234	34	33	97	85
	National, Provincial Languages & Their Literature	533	140	24	18	75	83
	Economic Development in Pakistan	534	154	7	6	86	95
	Pakistani Society and Culture	535	1,043	103	61	59	90
	Foreign Policy of Pakistan	536	740	43	23	53	94
	Ideological Foundation of Pakistan	537	655	39	23	59	94
	Genesis of Pakistan Novement	538	654	97	69	- 71	85
	Research Wethods-1	539	90	16	9	56	82
163	Social Change	541	230	63	47	75	73
	Social Theory	543	306	49	35	71	84
165	Political Parties & Pressure Groups in Pakistan	545	232	59	45	76	75
	Research Wethods-11 (*)	546	68				-
167	Thesis	547	40	11	11	100	73
	Sub-total		4, 769	565	398	70	88
	POPULATION EDUCATION						
	Population Education for Secondary School	511	2, 917	963	865	90	67
	Teachers(Post-graduate level)	• • •	-,		1	· · ·	
	Sub-total		2, 917	963	865	90	67
	POST-GRADUATE DIPLONA IN						
	ENGLISH LANGUAGE TEACHING						1
	English Language Teaching-1	515	947	102	99	97	89
	English Language Teaching-11	516	785	97	87	90	88
	Sub-total	010	1, 732	199	186	93	89
	TEACHING OF ENGLISH AS A FOREIGN LANGUAGE			100	100		05
	Psycholinguistics and Sociolinguistics	551	818	347	294	85	58
	Phonology and Grammer	552	622	379	350	92	39
	The Language Skills	553	272	156	124	92	43
	EFL in the Class room	554	255	130	124	90	
114	Sub-total	004					47
	<u>500-totai</u>		1,967	1,016	888	87	48

(*) Course not offered/result is not available.

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S. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-ou rate(%) age.
	MASTER OF BUSINESS ADMINISTRATION(NBA)			<u>cu</u>		<u></u>	
175	Introduction to Behavioural Sciences	521	140	53	44	83	.62
	Economic Analysis	522	137	54	32	59	61
110	Business Nathematics and Statistics	523	1. 046	88	40	45	92
	Research Nethods and Techniques	524	1,099	147	82	56	87
	Business Comunication	525	1,679	257	209	81	85
	Principles of Management	526	898	70	48	69	92
	Principles of Management	527	885	90	61	68	9
	Personnel Management	528	1.972	237	183	77	8
	Financial Accounting	529	1, 530	308	226	73	8
	Managerial Economics	530	76	26	22	.85	6
184	Taxation Management	561	1, 216	312	201	64	7
	Marketing Theory and Practice	562	358	73	19	26	8
186	Financial Management	563	336	95	45	47	7
	Principles of Commercial and Development Bank	564	304	67	61	91	1 7
188	Operation Research	565	266	56	34	61	7
189	Management Analysis & Organizational Development	566	255	65	51	78	
	Computer Appreciation for Business	567	153	46	37	80	7
	Business Commercial & Labour Laws	568	527	126	92	73	1 7
	Cost and Management Accounting	1	73	37	37	100	
193	Project Appraisal	569	95	26	23	88	
194	Production Management	570		28	23	100	5
	Transfer of Technology	571	64	26	23	88	5
	Energy Management	572	61	10	10	100	5
	Narketing Nanagement	573	20	9	9	100	4
198	International Marketing	574	17	-	7	100	Ē
	Advertizing & Sales Promotion	575	18	777	1 7	100	5
	Marketing Research	576		. 24	20	83	3
	Investment & Security Analysis	577	37		20	92	
202	International Financial Management	578	39		22	92	
	Corporate Planning & Financil Negociation	579		24 25		88	
204	Auditing	580		2, 417	1, 717	71	8
	Sub-total		13, 403	2,411	1, (1)		- 0
005	B.ED COURSES Perspective of Educational Management	512	18.468	12.238	9, 551	78	3
205		513	-	12, 359	9, 961	81	
	School Organization and Management	513	-	12, 192		68	
207	Evaluation, Guidance and Research	519		4, 577	4,074	89	
208		517		12.043		70	
	Educational Psychology and Curriculum	519					
	Teaching of English	520					
211	Teaching of Biology	651	1	t		98	
212	English(C)	652					
213	Islam, Pakistan and Modern World	655					
214	Workshop & Teaching Practice	000	100, 010				

(*) Course not offered/result is not available.

S. No	COURSES	Code	Enrol- ment	Appear- ed	Passed	Pass (%)age	Drop-out rate(%) age.
	W.Ed (Diploma in Special Education)						
	Psychology of Deaf & Child Development (*)	681	60	-	-	-	-
	Speech & Hearing (*)	682	60	-	-	-	· -
217	Audiology & Audiometry (*)	683	60	-			-
	Sub-total		180	- '	<u> </u>	-	-
	PRINARY TEACHER CERTIFICATE (PTC)	.					
	Principles and Methods of Teaching	601	50, 217	33, 637	25, 135	75	33
219	Primary Teacher's Orientation Course	602	83, 638	47,078	31, 890	68	44
220	Primary Education and Curriculum	609	32, 778	18,269	15, 508	· 85	- 44
221	Principles of Education	613	16, 042	8, 386	6, 055	72	48
222	Educational Psychology	614	16,046	9,067	6,508	72	43
	School organization	615	16, 037	9,694	7,616	79	40
224	School Community & Practical Arts	616	5, 359	4, 527	4,091	90	16
225	Teaching of Literacy	624	10, 679	4, 207	2, 194	52	61
	Sub-total		230, 796	134, 865	98, 997	73	42
	CERTIFICATE OF TEACHING (CT)				1		
226	Foundation of Education	603	9, 231	6, 254	5,043	81	32
227	Urdu and its Teaching	604	14, 907	4,662	3, 979	85	69
228	Social Studies & its Teaching	605	13, 485	4.027	3, 241	80	70
229	Home Economics & its Teaching	606	2, 238	946	855	90	58
	Science & its Teaching	607	1, 225	459	389	85	63
231	Dimensions in Education	631	6, 105	2, 820	1. 987	70	54
232	Islamiat and its Teaching	635	5,009	2, 558	2, 152	84	49
	Sub-total		52, 200	21, 726	17,646	81	58
	ATTC AND ALTC						
233	Arabic Teacher's Training Course	608	7,627	3, 749	3. 136	84	51
	Arabic Lecturer Training Course (*)	610	2	-			1
	Sub-total		7,629	3, 749	3, 136	84	51
	B. ED(ARABIC)						
235	School Management	591	51	50	50	100	2
236	Pakistan Studies	592	51	50	50	100	2
237	Teaching of English	593	51	50	50	100	2
	Methods of Teaching	594	49	. 49	49	100	T
	Arabic Phonotics	595	49	49	49	100	
	Four Skills for Language Learning	596	49	49	49	100	-
241	Aids of Education	597	49	49		100	-
	Sub-total		349	346	346	100	1

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S. No	COURSES		Enrol- ment	Appear- ed	Passed	Pass	Drop-out rate(%) age.
	N. PHIL IQBALIAT		000	78	62	79	65
242	lobal's Intellectual and Artistic Development	701	220	80	62	78	58
243	The Basic Thoughts and Ideas of Allama Iqbal	702	189	78	70	90	49
244	Study of Selected Text of Iqbal's Prose & Poetry	703	153			100	40
245	Nethods of Research	704	2	2		82	58
	Sub-total		564	238	196	- 64	30
	N. PHIL ISLANIAT		1		83	84	50
246	Methods of Research in Islam	712	198	99	1	94	34
247	Applied Research Nethodology	713	164	108	101	85	32
248	Synopsis and Bibliography of Research in Islam	714	165	112	95	and the state of t	39
	Sub-total	1	527	319	279	87	39
	L PHIL URDU						1 10
249	The Political & Cultural Background of Urdu Literature	721	215	111	101	91	48
250	Literary Movements and Critical Novements	722	178	98	95	97	45
251	Nethods of Teaching Literature	723	174	128	125	98	26
<u></u>	Sub-total		567	337	321	95	41
	X. PHIL EDUCATION	ł					
252	Trends and Issues in Education	731	146	21	21	100	86
253	Comparative Education (*)	733	33	-	-	-	-
254	Advanced Course on Non-formal Education (*)	734	25	-	-	-	
255	Advanced Course on Educational Management	735	22	9	8	. 89	59
256	Advanced Approaches and Curriculum Development (*)	736	76	-	· -	-	
257	Advanced Course on Adult Basic Education(*) & Literacy	737	5	-	-	~	
258	Advanced Course on Educational Planning (*)	738		-	-	-	
259	Teaching Strategies (Teaching Education)	739			7		46
2.55	Sub-total		334		36	97	89
1080	Nethods of Research	711	543		159		62
1 200	Sub-total	•	543			76	62
	GRAND TOTAL	1	1, 435, 193	747, 383	558, 020	75	48

