



Punjab Medical Faculty

62-A/D New Muslim Town, Wahdat Road, Lahore

Affiliation Criteria²⁰²⁶

For Institutions of Allied Health Sciences Education

1. General Provisions:

- 1.1 Institution applying for fresh affiliation shall submit the case on the prescribed form well before the beginning of the academic session. The application shall be entertained up to 15th February of the year. Application shall not be entertained after expiry of the deadline.
- 1.2 The institution shall submit a written undertaking on a surety bond to observe the rules and regulations notified by the Governing Body of PMF from time to time; sample undertaking is at **Annex N**.
- 1.3 The Institution requesting for affiliation with PMF will not seek affiliation with any other organization for the sake of Allied Health Science education.
- 1.4 Every institution shall provide reports or any other information as and when required by PMF.
- 1.5 The institution shall submit a detailed Annual Teaching Plan encompassing teaching and practical_training activities at the beginning of academic year.
- 1.6 The PMF may call upon any institution so affiliated to take such action as may appear to be necessary in respect of any matter.
- 1.7 Any affiliated private institute shall not be allowed to open any branch of the same institution in the same or any other town. Any branch or extension of the same institution shall undergo the same process as of a new institution and shall be granted affiliation after observing all formalities and proper inspection.
- 1.8 Change of premises of the institute shall not be allowed until prior permission of PMF is sought and the new building is inspected. Inspection shall be carried out with the same terms & conditions as of a new institution.
- 1.9 When an institution desires to add a new course of instruction, the procedure prescribed for affiliation shall be followed.
- 1.10 No institution shall name itself on titles used for various public sector institutions e.g. Nishter, Allama Iqbal, Jinah, Quaid-e Azam, Pakistan etc.
- 1.11 A team nominated by the Affiliation Committee of PMF will inspect the institution prior to grant of affiliation; status of the institution for affiliation shall be decided after considering the inspection report. Affiliation shall be granted only for the categories considered satisfactory.
- 1.12 Inspection shall not be carried out unless the mandatory fee is deposited and all necessary documentation is completed.

- 1.13 The affiliation shall be granted for the following courses:
- 1.13.1 Courses from New Scheme of Studies: Diploma courses of two years' duration regarding:-
- i. Medical Laboratory Technology
 - ii. Operation Theater Technology
 - iii. Radiography & Imaging Technology
 - iv. Physiotherapy
 - v. Renal Dialysis Technology
 - vi. Public Health Technology
 - vii. Ophthalmic Technician
- 1.13.2 Courses from Old Scheme of Studies: certificate course of one year's duration regarding Dispenser; two years' diploma for Dental Technician.
- 1.13.3 The specialty courses may be considered in standalone teaching institution, except "Mortuary Assistant" (Ref. MoM dated 18.02.2021) subject to the fulfilment of criteria.
- 1.14 The institutions shall be provisionally affiliated when the Affiliation Committee of PMF is satisfied that the following conditions are fulfilled:
- 1.14.1 The Institute to be affiliated has ownership of a hospital/health facility that complies with the criteria specified in section 4 or has valid Memorandum of Understanding (MoU) with a hospital/health facility that fulfills the criteria as described in this section (sample MOU is at **Annex M**).
- 1.14.2 The requirements for building, infrastructure, equipment's and staff are according to the prescribed specific criteria depicted in Sections 2 to 5.
- 1.15 Any paramedical institute may be inspected by any member of the Governing Body or any other nominee of PMF_during working hours without any prior/advance notice or information.
- 1.16 The institute shall make admissions only after the notification for its affiliation is issued by PMF.
- 1.17 The admissions will be done once a year and in single shift only. The admissions will be made only after advertisement by the Director General Health Services / Punjab Medical Faculty. Minimum quorum of admissions as determined by PMF shall be followed.
- 1.18 Provisional affiliation shall be granted for a period of two years on the recommendations of the inspection team. The affiliation granted will automatically expire at the end of this period. The head of institution will be required to apply for renewal/continuation in affiliation for the next two years by 15th February of the year in which expiry is due.
- 1.19 Any institute rejected by the Affiliation Committee may apply against the decision of the Affiliation Committee within 15 days after receiving the disaffiliation notice which will be decided by the Governing Body of PMF.
- 1.20 A provisionally affiliated institution shall be considered for disaffiliation, if it:

- 1.20.1 fails to conform to the conditions of affiliation;
- 1.20.2 fails to remove defects/observations communicated by the PMF, within stipulated period;
- 1.20.3 works against the norms, conduct or interests of the PMF.

2. Human Resource

The Institute shall have staff according to the yardsticks prescribed for each technology.

- 2.1 There will be a designated 'Course Coordinator' for each technology being offered by the affiliated institute. S/he will be hired on full time basis.
- 2.2 An NOC from administrative in-charge of government organization shall be required in case of a specialist who is government servant and is engaged as part-time teacher.
- 2.3 Technologist possessing B.Sc (Hons) or higher qualification will be accepted as specialist teacher for the relevant technology.
- 2.4 All staff members shall be employed on a written agreement between the employee & the employer stating clearly the terms & conditions of service.
- 2.5 The minimum salary for permanent staff shall not be less than the government scales.

3. Physical Infrastructure / Teaching Support

- a) **Total Covered Area of teaching campus:** not < 40 sq feet / seat applied
- b) **Area Specified for Class Rooms:** not < 15 sq feet / seat applied
Minimum seating capacity / class room: 25
- c) **Laboratories:** Pharmacy Lab, according to specifications, shall be situated within the institute if dispenser category is applied. A demonstration laboratory for Medical Lab Technology, with prescribed specifications, shall be available within the campus, if this category is demanded.
- d) **Library:** not < 400 sq feet
At least 10 books of appropriate level / 25 students related to each awarded technology must be present.
- e) **Demonstration Room:** not < 400 sq feet – having:
 - Examination Couch and stools for 25 Students
 - Model of Human Skeleton, models of human body and charts
 - Equipments / materials required for each awarded technology
- f) **Electricity backup** to be available

4. Attached Hospital

- 4.1 For provision of on-hand practical training the Institute should preferably have its own hospital facility with diverse and appropriate number of departments.
- 4.2 If the institute does not have its own hospital, it can sign Memorandum of Understanding¹ (MOU) with a hospital fulfilling criteria. A hospital can sign MOU with only one paramedical institute. Validity of an MOU shall be for two years.
- 4.3 The hospital shall be at least 20 bedded².
- 4.4 The attached hospital shall have valid license from Punjab Healthcare Commission; in case a license is not available there shall be provisional registration.
 - a) The new institute will provide registration of the hospital with Punjab Healthcare Commission while submitting application for affiliation.
 - b) If any institute which is already affiliated with PMF, intends to continue its affiliation and its attached hospital is not licensed, it will have to submit the copy of application submitted for registration with PHC.
- 4.5 In case PHC rejects the application for licensing of any hospital which is attached with the institute having affiliation with PMF or if the license of the hospital is cancelled by the PHC, the affiliation of the institute with PMF will stand cancelled.
- 4.6 In case the hospital is owned by Government it should not already have an attached paramedical institution. The terms of attachment with private institution shall be clearly spelled out in an MOU and permission from the Secretary to Govt. of the Punjab, Specialized Health Care & Medical Education Department shall be obtained in this regard. The hospital being attached shall not be below THQ level.
- 4.7 The distance between the institute and the attached hospital in the big cities up to 20 KM and in small cities up to 5 KM will be admissible subject to provision of the copy of registration of a vehicle in the name of institute as per detail given below:
 - a) If the distance between the institute and attached hospital is more than One Km and the institute is having 50 seats or more, the institute will have to submit a valid registration of 28 seater vehicle in the name of the institute
 - b) If the institute has a strength less than 50 seats, it will have to submit a copy of registration of 16 seater vehicle in the name of the institute

5 Record

Every institution shall maintain the following record:

- a) Student's admission register containing the name of every student, his father's name, residential address and date of admission
- b) Attendance register, class-wise
- c) Staff salary register or pay roll

¹ Follow the following instructions while preparing MoU:

- a) MoU is to be prepared on letterhead pad of the concerned hospital.
- b) Appropriate titles for the designations of signatories e.g. Administrator, Medical Superintendent, Principal etc. are to be used..

² The beds available in proper wards, private rooms and emergency will be counted.

- d) Staff attendance register
- e) Fee and others dues receipt register
- f) Income and expenditure account books, ledger etc;
- g) Register of assets, investments, stores, furniture, fixtures, equipment's and apparatus
- h) Documents relating to yearly budget duly approved by the management.

6 Financial Base

The Institute should be financially sound and exhibit accounting transparency by:

- a) Arranging annual audit by a reputable firm.
- b) Doing all transactions including salary transfers through bank.

7 Proportion of Assessment

Proportion of importance of different parameters during inspection would be as depicted below. The target score is 70% or above.

Sr. No.	Assessment Parameters	Scoring Proportion
A.	Attached Hospital(s) – preference awarded to institutions having own hospital	50
B.	Physical Infrastructure / Equipments Support	30
C.	HR	10
D.	Financial Base	10

Detail of marks awarded to parameters described above relating to institutions applying for fresh affiliation and continuation of affiliation is depicted in **Part II**.

- The requirements for the courses are depicted in **Annex A to Annex L**
- In case Public Health Technicians are trained a valid MOU with District Health / Municipal Health Management shall be available describing elaborate arrangements for practical attachment.

8 Affiliation Fee

Following fees shall be required for the affiliation process. Governing Body of PMF may change the rates as and when required.

HEAD	AMOUNT
Inspection Fee	Rs. 110,610/-
Continuation / Renewal / Re-inspection Fee	Rs. 63,210/-
Affiliation Fee per Category (in case affiliation is granted, not applicable for renewal of affiliation)	Rs. 15,800/-
Application processing fee / price of application form	Rs. 7,880/-
Retention fee (per category)	Rs. 7,880/-

Marks Distribution for Different Parameters

Part - I

1. Hospital (Not less than 20 beds)

Sr. #	Parameter	Marks
1	<u>Additional Marks</u>	
	No. of Beds: Marks for bed strength of 30	10
	No. of Beds: Marks for bed strength of 50	20
	Maximum for Section 1	20
2	<i>Distance of Hospital from teaching campus</i>	
	a) Adjacent/ One KM or less	10
	b) In big cities distance up to 20 KM and in small cities distance up to 5 KM with valid registration of vehicle in the name of the institute.	6
	Maximum for Section 2	10
3	<i>a) License from Punjab Healthcare Commission (Hospital without valid registration shall not be considered)</i>	20
	<i>b) In case hospital is not licensed but registered with PHC, availability of facilities / services as per specifications:</i>	
	i. Availability of 24 hours emergency services	2
	ii. Cardiac monitor, defibrillator, ECG machine	2
	iii. Availability of basic clinical support services	
	a). Clinical lab, (Marks = 2)	
	b). X-ray, (Marks = 2)	
	c). Pharmacy (Marks = 2)	
	d). Operation Theatre (Marks = 2)	8
	iv. Availability of essential clinical services: Medicine, Surgery, Pediatrics, Gyn- Obs	2
	v. Level of cleanliness & sterilization	2
	vi. Ambulance	2
	vii. Hospital own blood bank	2
	Maximum for section 3-b	20
	Maximum for section 3	20
	Total for Hospital	50

Note: A Medical / Clinical Lab outside hospital shall also be acceptable for the purpose of clinical attachment of students of medical laboratory Technology

Physical Infrastructure/Equipments

Sr No.	Parameter	Marks
1	Institute having its own building	6
2	Building according to specified parameters	10
3	Classrooms according to specifications	8
4	Library (size and availability of books – minimum 10 books of appropriate standard for each 25 students of a technology). Maximum five years old edition.	3
5	Demonstration Room (size & and availability of models	3
	Total	30

2. Financial Base

3.1: For institutions applying for continuation of Affiliation

Sr. No.	Parameter	Marks
1	Institution having a bank account in its name and all transactions made through bank	5
2	Availability of arrangements for institutions financial audit	5
	Total	10

3.2: For institutions applying for New Affiliation

Sr. No.	Parameter	Marks
1	Institution having a bank account in its name and all transactions made through bank ³	5
2	Income Tax return(s) of owner(s)	5
	Total	10

³ In case such account is not available, a separate and dedicated account for institution related transactions shall be arranged. This account is to be essentially converted to institute's name after grant of affiliation.

3. Human Resource (Number, qualification and experience of teaching faculty to be assessed separately for each demanded technology)

Sr No.	Parameter	Marks
1	Availability of service contracts	5
2	Abidance of salary structure according to government scale	5
Total		10

Grand Total Part I

Sr No.	Parameters	Marks
1	Hospital	50
2	Physical infrastructure/ equipments	30
3	Financial base	10
4	Human Resource	10
Total		100

Important Note

50% score in each section separately is mandatory.

70% marks in total are also mandatory for affiliation.

Part – II

HR / demonstration equipment / materials / models for the demanded technology

Sr No.	Technology	Marks	
1	Dispenser	50	Annex A
2	MLT	50	Annex B
3	Operation Theater	50	Annex C
4	Radiography & Med Imaging	50	Annex D
5	Public Health Technician	50	Annex E
6	Physiotherapy Technician	50	Annex F
7	CSST	50	Annex G
8	Dialysis Technician	50	Annex H
9	Ophthalmic Technician	50	Annex I
10	Endoscopy Technician	50	Annex J
11	Dental Technician	50	Annex K
12	Anesthesia Technician	50	Annex L

Minimum marks required for Part II: 35 for each demanded category (absence / lack for any specific category will make the institution ineligible for that particular technology)

Part – III

Only for Institutions Applying for Continuation of Affiliation

#	Parameters	Proposed
1	Previous Cumulative Result:	
	Less than 20%	0
	20%-----30%	3
	31%-----40%	5
	41%-----50%	8
	50% and above	10
2	Compliance with Policy:	
	Submission of Teaching Plan	2
	Submission of Bank Statements	2
	Timely Registration	2
	Maximum for Section 2:	6
3	No genuine complaint/ warning during previous two years	4
	Total	20

Minimum marks required for Part III: 15

Requirements for Dispenser Training

Annex A

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	MBBS
Pharmacist	B Pharmacy
Dispenser	Dispenser with 5 years' experience

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Pharmacy Laboratory: not < 400 sq feet (to be situated in the teaching campus).

a) Apparatus

1.	Weighing balance
2.	Fractional weights
3.	Measuring cylinders
4.	Beakers
5.	Conical flask
6.	Pipettes
7.	Pestle & Mortar
8.	Funnel
9.	Glass or Porcelain tile
10.	Burner

11.	Tripod stand
12.	Glass rods
13.	Litmus paper
14.	Filter paper
15.	Spatula
16.	Dispensing bottle
17.	Cork

b) Chemicals/ Ingredients for Different Preparations

1.	Powders	Aspirin
2.		Phenacetin
3.		Caffeine
4.		Talc
5.		Starch
6.		Light Kaolin
7.		Zinc Oxide
8.	Ointments	Liquid Paraffin
9.		Glycerin
10.		Wood Fat
11.		Paraffin Wax
12.		Soft Paraffin
13.		Hard Paraffin
14.		Vaseline
15.		White Wax
16.		Sulphur
17.		Salicylic Acid
18.		Benzoic Acid
19.	Solutions/ Lotions	Acridflavin
20.		Calamine
21.		Zinc Oxide
22.		Bentonite
23.		Sodium Citrate
24.		Liquefied Phenol
25.		Glycerin
26.		Sodium Chloride
27.		Potassium Permanganate
28.		Dextrose
29.	Ear Drops	Boric Acid
30.		Iethammol
31.		Glycerin
32.		Salicylic Acid
33.		Soda Bicarbonate
34.	Throat Paint	Tincture iodine
35.		Potassium iodide

36.		Tincture Aconite
37.		Tincture Myrrah
38.		Peppermint oil
39.		Tannic Acid
40.		Glycerin
41.		Thymol
42.	Carminative Mixture	Sodium Bicarbonate
43.		Tincture Cardamom Compound
44.		Spirit Ammonia Aromatic
45.		Spirit Chloroform
46.		Distilled Water
47.	Miscellaneous	Poppy Seeds
48.		Belladonna roots
49.		Aspirin Powder
50.		Sodium Bicarbonate
51.		Copper Sulphate
52.		Menthol Crystal
53.		Camphor
54.		Gentian Violet

B-1: Demonstration Room

a) Appliances

1	Thermometer
2	Stethoscope
3	B.P Apparatus
4	Sterilizer
5	Tongue Depressor
6	Splints

b) Disposables

1.	I.V Branula
2.	Butterfly needle
3.	Nasogastric tubes
4.	Folley,s Catheter
5.	Urine bags
6.	CVP Line
7.	Simple bandages
8.	Crepe Bandages
9.	Plaster of Paris Bandages
10.	ECG electrodes
11.	Lumber Puncture needle

12.	Airways
13.	Endotracheal tubes
14.	Intravenous infusion sets
15.	Blood transfusion sets
16.	Blood bags
17.	Surgical Sutures (Viery 1, Prolene, Silk, Catgut)

Marks for Practical Training:

1	Pharmacy Lab of specified area	5
2	Apparatus	5
3	Chemicals/ Ingredients for Different Preparations	5
4	Appliances & Disposables	5
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Med Lab Technology

Annex B

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Specialist Doctor	MBBS, DCP
Technologist*	BSc (Hons)
Lab Technician	With 5 years' experience

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Demonstration Lab within Institute:

c) Physical Parameters

18.	Properly ventilated laboratory: Size: 15 feet x20 feet
19.	Water supply wash basins and gas burners for experimental work
20.	Marble table tops for laboratory (height 34 inches)
21.	Laboratory chairs or students lab. stools (at least 13)

d) Equipments

1.	Teaching Microscope double head with pointer
2.	Electricity operated Student Microscope at least six for 25 students

e) Glassware

1.	Glass slides and cover slips
2.	Petri dishes
3.	RBC, WBC pipettes
4.	Automatic pipettes

f) Stain and Media

1.	Giemsa's Stain/Leishman Stain/Fields stain
2.	Gram Stain
3.	Reticulocyte Stain
4.	ZN stain
5.	Blood agar
6.	Chocolate agar
7.	Mackonkey agar
8.	Cedar wood oil
9.	Electrolyte Analyzer

B-2: Functional Clinical Lab:

a) Physical Parameters

Properly ventilated and room temperature controlled laboratory: Size: 15 feet x20 feet

b) Equipments

1.	Westergreen's tubes, Wintrobe tubes and ESR stands
2.	Centrifuge machines
3.	Hematology Analyzer
4.	Chemistry Analyzer. A basic chemistry analyzer (Spectrophotometer) optional
5.	Water baths
6.	ABGs Analyzer
7.	Elisa Strip Reader
8.	Autoclave
9.	Hot Air Oven
10.	Incubator
11.	Refrigerator
12.	Tissue Process
13.	Microtome
14.	Microbiology Hood
15.	ESR Stand Pipettes

c) Arrangements for Tests

Sr. No.	Clinical Type
1	Histopathology
2	Hematology including Blood Cross Matching
3	Bacteriology
4	Biochemistry

Marks for Practical Training:

1	<p><i>Demonstration Lab within Institute</i></p> <p>a. Physical Parameters = 3 b. Equipments = 3 c. Glassware = 2 d. Stain and Media = 2 Maximum Marks = 10</p>	10
	<p><i>Functional Clinical Lab</i></p> <p>a. Physical Parameter= 3 b. Equipments = 4 c. Variety of Tests = 3 Maximum Marks = 10</p>	
Total:		20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
Total		50

Minimum marks required: 35

Requirements for Radiography & Medical Imaging Technology

Annex C

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	MBBS, DMRD
Technologist*	BSc (Hons)
Technician / Radiographer	Radiographer with 5 years' experience

*in case a specialist doctor is not available

Marks for HR:

1	Number Of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick**	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: X-Ray Room Size: 15 x 15 feet

B-2: Equipment

1	X-Ray Machine (300 M.A) along with cassette and screen – all sizes
2	Auto Processor
3	Mobile X-Ray Unit
4	Flourosopy
5	Film Badges Dosimeter
6	Ultrasound Machine

B-3: Dark Rooma) Size: 10 x 8 feetb) Elements

1	Film processing tanks with running water
2	Loading shelf
3	Safe light

B-4: Protectiong) **Personal**

1	Lead Apron
2	Gloves
3	Goggles
4	Gonadal Sheet
5	Thyroid Protector
6	Lead Equivalent Glass

h) **Public**

18.	Brick Wall/ Concrete Equivalent Thickness 10"
19.	Doors & Windows Protected with Lead Sheets

Marks for Practical Training:

1	X-Ray Room Size	3
2	Equipment	6
3	Dark Room Size	2
4	Dark Room Elements	4
5	Protection (Personal & Public)	5
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Operation Theater Technology

Annex D

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	FRCS/ FCPS/ MS
Technologist*	BSc (Hons)
Technician / OTA	OTA with 5 years' experience

*in case a specialist doctor is not available

Marks for HR:

1	Number Of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick**	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Operation Theater Size: 20 x 20 feet

B-2: Basic Facilities

1	Aseptic Zone/ separating area having washable floors and walls
2	Changing area
3	Sterilization & equipment instruments and linen area
4	Scrub Area
5	Operating Area
6	Waste & waste management area

B-5: Equipments

1	Operating table
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2	Ceiling Operation Theater light with multiple reflectors
3	Electro surgical Unit/ Electro-cautery machine
4	All essential surgical instruments
5	Autoclave/ facility for sterilization
6	Suction machines
7	Monitoring Devices like cardiac monitor pulse oximeter
8	Resuscitation trolley/ equipment including defibrillator
9	Anesthesia Machine Laryngoscope sets
10	Gas supply system i.e. Oxygen and Nitrous Oxide
11	Air Conditioning
12	Refrigerator for keeping blood, essential medicines
13	Backup & Generator/ Ups for electricity failure

Marks for Practical Training:

1	Operation Theater (Room Specifications) a) Operation Theater size according to parameters = 3 b) Basic Facilities = 5 Maximum Marks = 8	8
2	Equipment	7
3	Demonstration Room for OT instruments (within teaching campus)	5
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Public Health Technician

Annex E

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Specialist Doctor	MBBS, M. Phil/FCPS/PM (Community Medicine)/Master in Public Health
Technologist*	BSc (Hons), Public Health
Public Health Technician / Sanitary Inspector	With 5 years' experience in relevant department/functional unit

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Demonstration room within Institute:

i) Physical Parameters

1.	Demonstration room
2.	Transportation arrangements for students
3.	Laboratory with basic facilities

j) Demonstration Room

1.	Properly ventilated room with minimum dimension: Size: 15 feet x 20 feet
2.	Instruments for larvicidal and insecticidal activity
3.	Water sampling equipments
4.	Food sampling equipments

k) Laboratory with basic facilities

1)	Properly ventilated laboratory with minimum dimension: Size: 15 feet x 20 feet
2)	Water supply was basin and gas burners for experiments work
3)	Marble table tops for laboratory (height 34 inches)
4)	Laboratory chair or student lab seats

l) Equipments

3.	Student Microscopes
4.	Weighing balance
5.	Measuring cylinders
6.	Beakers
7.	Conical flask
8.	Pipettes
9.	Pestle and Mortar
10.	Funnel
11.	Burner
12.	Tripod stand
13.	Glass rods
14.	Litmus paper
15.	Glass or Porcelain tile
16.	Filter paper
17.	Spatula
18.	First Aid equipments
19.	Fridge
20.	Vaccine carrier with a set of ice packs
21.	Cold chain thermometer
22.	Syringe cutter
23.	All types of syringes used in EPI e.g. auto disable 21-24-26

m) Stationery

1	All performas (a set) used in EPI routine programme (polio days / immunization campaigns)
1	Sanitary Inspector field book with all relevant performas used for multi-purpose health worker
1	All types of charts EPI, CDC and Sanitary Inspector for display

n) Stain and Media

1.	Giemsa's Stain/
2.	Gram Stain
3.	Cedar wood oil
4.	Reticulocyte stain

5.	ZN stain
6.	Blood agar
7.	Chocolate agar
8.	Reagents for water testing

o) Samples / Models

1.	Models / samples of insects of clinical importance
2.	Models / samples of parasites of clinical importance
3.	Availability of sampling kits
4.	Insect aspirator
5.	Magnifying glass 10 *
6.	Model / Mannequin for first aid training

Marks for Practical Training:

	<i>Class Room / Demonstration Room</i>	
1	e. Physical Parameters = 1 f. Proper seating arrangements = 1 g. Instruments for larvicidal and insecticidal activity = 1 h. Food & Water sampling equipment = 1	4
2	<i>Transportation arrangements for student visits / attachments</i>	4
	<i>Laboratory facilities with basic necessities Demonstration Room</i>	
3	i. Physical Parameters = 1 j. Equipment = 1 k. Stains and media = 1 l. Samples / Models = 1	4
	<i>Arrangements for practical attachments (in the form of MOU / written permission)</i>	
4	d. EDO / DC office for C.D experience = 2 e. EPI Control = 2 f. Municipal Administration attachment = 2 g. Hospital attachment = 2	8
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Physiotherapy Technician

Annex F

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Specialist Doctor	MBBS, Orthopedic, Physiotherapist
Technologist*	BSc (Hons), DPT
Physiotherapy Technician	With 5 years' experience in relevant department

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 years	2
2 – 3 years	1

B. Arrangements for Practical Training

B-1: Functional physiotherapy department within Institute:

p) Physical Parameters

4.	Properly air-conditioned department with minimum 6 treatment beds for 25 students
5.	Washroom, wash basin facility and proper water supply
6.	Stools and chairs
7.	Proper electrical supply
8.	Separators and blinds for patient privacy

q) List of required equipment

5.	Automated Traction Machine
6.	Treatment tables with pillows
7.	Ultraviolet lamp

8.	Infra-red lamp
9.	Currents modal (Interrupted direct current. Faradic current, TENS device, Sinusoidal current and interferential current) with cables and electrodes
10.	Short Wave Diathermy
11.	Paraffin Wax bat unit
12.	Hydrotherapy Unit / Pool with floaters and devices
13.	Hydro collator Unit with Hot packs and towels
14.	Freezer / Cry therapy Unit with cold packs
15.	Suspension therapy Unit
16.	Pulleys
17.	Shoulders exercises Wheel
18.	Ladder bar
19.	Weight (dumbbells, cuff weight), TheraBand with different resistances
20.	Gym Ball and Peanut Ball
21.	DeLorme chair with weight, Stationary Cycle, Treadmill
22.	Exercise therapy Mat
23.	Parallel bars with mirrors
24.	Steps Stool
25.	Canes, Tripods, Crutches, Walking Frames
26.	Immobilizers, orthotics and prosthetics
27.	Spirometer
28.	Goniometer

Marks for Practical Training:

1	Physical parameters	7
2	Equipment	10
3	Practical book	3
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Central Sterile Service Technician

Annex G

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	FRCS/ FCPS/ MS
Biomedical Engineer	BS/BSc./BE Engineering
Technician / Operator	CSSD Operator / Technician with 5 years' experience

Marks for HR:

1	Number Of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick**	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: CSSD Department

B-2: Basic Facilities

1	Receiving area / Dirty area
2	Washing area
3	Packing area
4	Sterile Zone
5	Dispatching area

B-5: Equipments

1	Washing unit
2	Steam sterilizer
3	Ultrasonic cleaner
4	Paper dispensing trolley
5	Paper sealing machine
6	Cutting device
7	Automatic trolley wash
8	Dry cabinet
9	Theater Sterile Supply Unit
10	Low temperature sterilizer

Marks for Practical Training:

1	CSSD (Area Specifications) b) CSSD parameters as per defined standards = 3 b) Basic Facilities = 5 Maximum Marks = 8	8
2	Equipment	7
3	Demonstration Room for CSSD (within teaching campus)	5
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Dialysis Technician

Annex H

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	Consultant Nephrologist PMC/PMDC Certified Nephrologist
Technologist	BSc. Dialysis Technologist
Technician	Dialysis Technician with 5 years' experience in relevant field

Marks for HR:

1	Availability of Doctor according to the specified yardstick	15
2	Availability of technologist	10
3	Availability of Dialysis Technician and course coordinator	5

A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

5 years	3
3 – 5 years	2
2 – 3 years	1

Arrangements for Practical Training

Demonstration / Teaching Rooms within Institute:

22.	Properly ventilated rooms with adequate illumination : 20 feet x 20 feet
23.	Double lumen Hemodialysis Catheter
24.	Permanent Dialysis Catheter
25.	RO flow chart
26.	Dialyzer sets
27.	Fistula AVF needles
28.	Dialyzer tubing
29.	Peritoneal Dialysis equipment related flow chats
30.	Flow charts related to all above

Dialysis Unit

1	Minimum 5 Machines
2	Separate Machine for Hepatitis patients
2	Minimum numbers of dialysis 150 per month

3	Water plant service record for quality assurance
4	SOPS Wastes products management services record with separate sharp bin arrangements
5	SOPS for prevention for infection control
6	Students changing room
7	Area for bedside clinical learning
8	Monitoring devices like cardiac monitor, ECG, BP apparatus, resuscitation trolley and defibrillator.
9	Refrigerator and Air Conditioner
10	Demonstration room for education and training
11	Procedure room for training

Marks for Practical Training:

1	Machines	10
2	Equipment	5
3	Demonstration Room	5
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Ophthalmic Technician

Annex I

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION	Number
Specialist Doctor/Ophthalmologist	MBBS along with FCPS (Ophthalmology)	One
Infection Control Specialist / Microbiologist	M. Phil or BSc (Hons)	One
Demonstrator	MBBS / BSc (Hons)	One
Ophthalmic Technologist/ Optometrist/Refractionist*	BSc (Hons)	One
Ophthalmic Technician	With 5 years' experience in relevant field	One

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Demonstration / Teaching Rooms within Institute:

r) Physical Parameters

31.	Properly ventilated rooms with adequate illumination : 15 feet x 20 feet
32.	Marble table tops for machinery / equipment (height 34 inches)
33.	Student lab. stools (at least 10)

s) Equipments

24.	Eye test Chart / visual acuity charts
25.	Projector
26.	White board
27.	Chairs for students
28.	Table
29.	Lecture Stand / Presentation Dias

B-2: Functional Clinical Eye OPD rooms & Dressing Rooms:

d) Physical Parameters

1	Properly ventilated rooms with adequate illumination : 15 feet x 20 feet
2	Marble /PVC tops for machinery / equipment (height 34 inches)

e) Equipments / Machines

16.	Eye test chart / visual acuity charts
17.	Slit lamp
18.	Torch
19.	Tonometer
20.	Visual field analyzer
21.	B-Scan / Ultrasonography
22.	Sophisticated and advanced eye equipments if available <ul style="list-style-type: none"> • FFA machine (Optional) • OCT machine (Optional) • Packy meter (Optional) • HRT machine (Optional)
23.	Dressing trolley
24.	Examination light
25.	Patient couch / table
26.	Dressing tray
27.	Dressing drum
28.	Instruments set for dressing
29.	Autoclave
30.	Hot air oven
31.	Needle / Syrinbe cutters

f) Arrangements for Tests

1	Eye Screening, Vision / Refraction
2	Diagnostic tests: <ul style="list-style-type: none"> • B-Scan • FFA (Optional) • OCT (Optional)

	Glaucoma diagnostic test: Visual Field
3	CCT (Optional) HRT (Optional)

B-3: Functional Eye Operation Theatre:

g) Physical Parameters

1	Well secluded room with no direct access to exterior : 15 feet x 20 feet
2	Non-Porous walls
3	Marble /PVC floor
4	Air Conditioners (for maintenance of OT Temperature)

h) Equipments / Machines

32.	Autoclave
33.	Hot air oven
34.	Operating microscope with display or anterior view
35.	Operation light
36.	Operation table
37.	Surgeon stool
38.	OT trolleys
39.	Patient couch
40.	Patient Stretcher
41.	Phacoemulsification machine
42.	Vitreotomy machine
43.	Needle / Syringe cutters
44.	Surgical instruments sets for: <ul style="list-style-type: none"> • Cataract Surgery • Squint Surgery • Vitreoretinal Surgery • Oculoplastic Surgery • Corneal Transplant Surgery • Chalazion Surgery

Marks for Practical Training:

Sr. No.	Practical Training	Total Marks
1	<i>Demonstration Rooms/Eye Skill Labs within institute</i> m. Physical Parameters = 2 n. Equipments/Machines = 2	04

2	Functional Clinical Eye OPD Rooms & Dressing Rooms h. Physical Parameter= 2 i. Equipments/Machine = 4 j. Variety of Tests = 2	08
	Functional Eye Operation Theatre a) Physical Parameter= 2 b) Equipments/Machine = 4 c) Variety of Tests = 2	08
	Total:	20

Cumulative Assessment:

Sr. No.	Cumulative Assessment	Total Marks
1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Endoscopy Technician

Annex J

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Doctor	FRCS/ FCPS/ MD
Staff Nurse	BSc Nursing
Technician	Endoscopy Technician / One year experience letter from Head of Department Gastroenterology

Marks for HR:

1	Number Of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick**	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Endoscopy Room Size: 14 x 14 feet

B-2: Basic Facilities

1	Endoscopy Room	Minimum 2 Rooms Size 14 x 14 feet
2	Sterilization area	10 x 10 feet
3	Waiting area	15 x 20 feet
4	Recovery area	40 x 40 feet
5	Changing room	10 x 5 feet
6	Class room	12 x 12 feet
7	Fluoroscopy room	20 x 20 feet

8	Wash basins	2
9	Motility Lab (Optional)	10 x 10 feet
10	PH Monitoring Lab (Optional)	10 x 10 feet
11	Endoscopy Ultrasound lab (Optional)	14 x 14 feet

B-3: Equipments

1	Endoscopy work station
2	Stretcher
3	Monitoring devices like cardiac monitor pulse oximeter
4	Electro surgical unit / electro-cauter machine
5	Facility for sterilization
6	Suction machine
7	Resuscitation trolley / equipment including defibrillator
8	Anesthesia machine laryngoscope sets
9	Gas supply system i.e. oxygen
10	Air conditioning
11	Refrigerator for keeping essential medicines
12	Backup & Generator / UPS for electricity failure
13	Backup endoscopy equipment
14	Sangstaken Blakemore tubes

Marks for Practical Training:

1	Endoscopy Rooms Specifications c) Endoscopy room size according to parameters = 3 b) Basic Facilities = 5 Maximum Marks = 8	8
2	Endoscopy Equipment	5
3	Demonstration Room for Endoscopic Equipments (within teaching campus)	5
	Number of Endoscopy Procedures per week / month	2
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Dental Technician

Annex K

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Specialist Doctor	BDS
Demonstrator	BDS
Dental Technician	With 5 years' experience

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 years	2
2 – 3 years	1

B. Arrangements for Practical Training

B-1: Demonstration Lab within Institute:

t) Physical Parameters

Sr. No.	Building	Requirements
34.	Minimum five fully ventilated rooms	Including the following rooms with proper lights
35.	Prosthetic Lab 10 x 12 feet	One
36.	Ceramic lab 10 x 12 feet	One
37.	Principal Office	One
38.	Admin Office	One
39.	Wash Rooms	One
40.	Lecture Room 10 x 12 feet	Two
41.	Open Area	As per need

B-2: Functional Clinical Lab:**i) Physical Parameters**

Properly ventilated and room temperature controlled laboratory:
Size: 15 feet x20 feet

j) List of Equipments:

Sr. No.	Name of Electro-Medical Equipment	Requirements
45.	Metal alloy grinder high speed	One
46.	Porcelain furnace	One
47.	Preheat furnace	One
48.	Vibrator	One
49.	Casting ally machine	One
50.	Sand blaster	One
51.	Air compressor	One
52.	Articulators	As per need
53.	Student chairs / stools	As per need
54.	Steel or marble tables for practice work	As per need

List of Equipments prosthetic lab:

Sr. No.	Name of Electro-Medical Equipment	Requirements
1.	Micro motor slow speed	As per need
2.	Micro motor high speed	As per need
3.	Lathe machine grinding	One
4.	Lathe machine for finishing	One
5.	Lathe machine for polishing	One
6.	Burner for wax work	Lab specified
7.	Burner for curing	Lab specified
8.	Press simple hydraulic	One
9.	Articulator	As per need
10.	Surveyor	One
11.	Vibrator	One
12.	Vaccume mixer	One
13.	Flasks	As per need

k) Arrangements for practicals

Sr. No.	Lab Practicals
1	Prosthetics
2	Orthodontics
3	Crown & Bridge
4	Obturator

List of materials for prosthetic (A):

Sr. No.	Name of Material	Requirements
1.	Hard plaster	As per need
2.	Investment material	As per need
3.	Self-cure acrylic	As per need
4.	Heat cure acrylic	As per need
5.	Pre formed acrylic teeth	As per need
6.	Alloy metal	As per need
7.	Porcelain body	As per need
8.	Porcelain Opaque	As per need
9.	Porcelain Enamel	As per need
10.	Porcelain Glaze	As per need
11.	Wax different type	As per need
12.	Sand special quality	As per need
13.	Lubrifiilm	As per need
14.	Porcelain brushes	As per need
15.	Asbestos	As per need
16.	Articulation papers	As per need

List of materials for orthodontics (B):

Sr. No.	Name of Electro-Medical Equipment	Requirements
1.	Acrylic methyl	As per need
2.	Heat cure	As per need
3.	Self-cure	As per need
4.	Waxes	As per need
5.	Soft plaster	As per need
6.	Hard plaster	As per need
7.	Teeth pre molded	As per need
8.	Polishing discs-buffs cakes	As per need
9.	Fumic powder brushes	As per need
10.	Surveyor	As per need
11.	Vibrator	As per need
12.	Vacuum Mixer	As per need
13.	Flasks	As per need
14.	Bowls different shapes size	As per need

Marks for Practical Training:

	Demonstration Lab within Institute	
1	o. Physical Parameters = 3 p. Equipments = 3 q. Material A = 2 r. Material B = 2	10

	Maximum Marks = 10	
	Functional Clinical Lab	
2	k. Physical Parameter= 3 l. Equipments = 4 m. Tasks = 3 Maximum Marks = 10	10
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Anesthesia Technician

Annex L

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION
Specialist Doctor	Qualified Anesthesia Specialist with following qualification and registered with PMDC(FRCA, FCPS, MS, MCPS, DA)
Technologist*	BSc (Hons)
Anesthesia Medical Officer	MBBS
Anesthesia Technician	With 5 years' experience in relevant field

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Demonstration / Teaching Rooms within Institute

a.	Endotracheal Tubes
b.	Laryngoscope set
c.	LMA (Laryngeal mask airways)
d.	Guedels airways set
e.	Sty let / Bogie
f.	Anesthesia mask set, all
g.	Ambu Bag (Adult & Paediatric)
h.	Soda limt
i.	Micro burette
j.	Infusions (normal saline
k.	Haemccel II 5% D/W
l.	Gelafundin III Ringers lactat
m.	Epidural set
n.	Ventimask with tube
o.	Regulator & Gauges

Injections

42.	Propofol
43.	Pentothal
44.	Suxamethonium
45.	Tracrium (Atracurium)
46.	Rocuronium
47.	Glycopyrolate
48.	Neostigmine
49.	Ketamine
50.	Dormicum
51.	Diazepam
52.	Phenylephrine
53.	Ephedrine
54.	Atropine
55.	Adrenatline
56.	Potassium
57.	Calcum
58.	Solucortef
59.	Lignocaine
60.	Lopressor
61.	Isoket
62.	Nitronil (Nitroycene)
63.	Lanoxin
64.	25% D/water

u) Equipments

Anesthesia face mask	All sizes
Rebreathing bags	All sizes
Guidel oral airway	All sizes
Laryngoscopes	All sizes
Magill forceps adult and pediatric	
Stethoscope	
B.P apparatus with stand	
Revolving stools	
Scissors	
Sty let / Gum elastic bogie	
Tounge holding forceps	
Catheter mount (extended connector)	
Yapese	
Drip stand	
Nasopharychil airways	
Endo tracheal tubes both cuffed and uncuffed	All sizes
Rai endo tracheal tube	All sizes
Bull nose cylinder with pressure regulator and gauge and vent mask with tubing's	
Ambu bags adult and pediatric size with masks	
Vent mask adult and pediatric size tubing	
Syringe / infusion pump	

Monitor	
Pulse oximeter having adult and paediatric probes	
Respiration, gases, AWP, BIP	
All essential drugs for anesthesia and adjuvant drugs	
Nasogastric tubes	All sizes
Neelton catheter	All sizes
Microburette	
Surges	All sizes
ECG Electrodes	
Fluids	
Bandages	
Sticking plaster	
Throat pack	
Emergency trolley	
All essential drugs	
Ambo bags adult paediatric with mask	
Baby warmer and resuscitation trolley	
Pulse oximeter with paediatric probe	
Syringes	
Endotracheal tubes having sizes 1 D 2mm to ID 3.5mm	

(Video laryngoscope, Video bronchoscope, Glidescope) optional

B-2: Function Clinical Lab

i.	Epidural set
ii.	Cylinders
iii.	Regulator & Gauges
iv.	Anesthesia work station
v.	Scrub area
vi.	Instruments sterilization and cleaning area
vii.	Gas room
viii.	Gas failure alarm (on central supply as well as anesthesia machine)
ix.	Pre-anesthesia station
x.	Pin index cylinders for oxygen and nitrous oxide attached with machine
xi.	Post anesthesia care unit / recovery
xii.	Washable floors and walls
xiii.	Class room with audio / visual facility

Anesthesia Work Station

Anesthesia Machine with Ventilator

Breathing Circuits

Note: If disposable circuit then use only once

v) Equipments

Suction apparatus
Blood and fluid warming device

Defibrillator
Availability of backup ventilation, emergency lights, generator, ups
Gas room, for supply of gases 4 cylinder interchangeable manifold, 2 for oxygen and 2 for nitrous oxide

(Video laryngoscope, Video bronchoscope, Glideslope) optional

Post anesthesia care unit (PACU)

Monitoring facility, essential drugs

Marks for Practical Training:

Sr. No.	Practical Training	Total Marks	Marks Obtained
1	<i>Demonstration Rooms Lab within Institute</i> n. Physical Parameter= 2 o. Equipments/Machines = 4 p. Injections = 2	08	
2	<i>Functional Lab / Operation Theatre</i> a. Physical Parameter= 2 b. Equipments/Machines = 4 c. Anesthesia work station = 2 d. Anesthesia machine with ventilator - 4	12	
	Total:	20	

Cumulative Assessment:

Sr. No.	Cumulative Assessment	Total Marks	Marks Awarded
1	Human Resource	30	
2	Arrangements for practical training	20	
	Total	50	

Minimum marks required: 35

Requirements for Training of Dental Assistant

Annex-M

*The Course will only be offered to Pakistan Medical Commission's (PMC)
recognized Dental Teaching Institutions*

(For 10 Students)

A. Human Resource

STAFF	MINIMUM EXPERIENCE
Sr. Dentist	Five Years
Dentist	Two Years

B. Treatment Area for Practical Training

Properly ventilated and room temperature-controlled room: Size: 20 feet x 15 feet

C. Equipment and Gadgets

SR. NO.	EQUIPMENT	MINIMUM REQUIRED QUANTITY
General Items/ Equipment		
1	Dental unit with accessories	05
2	Dental stools	10
3	Dental x-ray equipment	01
4	Electric Autoclaves	01
5	Ultrasonic cleaners	01
6	High speed handpiece contrangle	05
7	Slow speed handpiece contra angle	05
8	Slow speed handpiece straight	05
9	LED light for curing	02
10	Mirror	10
11	Probe	10
12	Tweezers	10
Instruments Required for Operative and Pediatric Dentistry		
1.	Excavators	10
2.	Plastic instruments	10
3.	Amalgamator	01
4.	Condensers	10
5.	Burnisher a) Egg shaped b) Ball shaped	10 each

	c) Carrot shaped	
6.	Amalgam gun	05
7.	Glass slab	10
8.	Cement spatula	10
9.	Matrix band retainers a) Toffelmerre b) Ivory	5 each
10.	Matrix bands assorted	5 packets
11.	Dycal applicator	10
12.	Reamers	50 packets
13.	Files – Ni-Ti 15 – 40; 45 – 80 - H-files - K-files	50 packets
14.	Barbed broaches 15 – 40; 45 – 80	05 packs each
15.	Gates Glidden burs	01 pack
16.	Peso reamers	01 pack
17.	Endodontic posts	01 pack
18.	Endodontic pluggers (manual and engine driven)	01 pack
19.	Endodontic spreaders (manual and engine driven)	01 pack
20.	Wedges	01 pack
21.	Celluloid strips	01 pack
22.	Amalgam carver	10
23.	Pestle & mortar	01
24.	Diamond burs - Round - Fissure - Inverted cone	10 each
25.	Diamond polishing burs	01 kit
26.	Composite polishing kit	01
27.	Dentinal pins	01 pack
28.	Dovel pins	01 pack
29.	Crown remover	01
30.	GIC	01
31.	Pulperyl	01
32.	Cresophene	01
33.	Varnish	01
34.	Retraction cord	01
35.	Rotary Endomotor with accessories	01
Minor oral surgery		
1.	Extraction forceps - Upper forceps complete set - Lower forceps complete set - Root forceps upper and lower (complete set)	02 sets each
2	Stainless steel tongue depressor	02
3	Stainless steel surgical suture scissor	05
4	Blade handles	05
5	Needle holders	05
6	Root elevators	02

7	Periosteal elevators	02
8	Self-aspirating dental syringe	05
9	Tissue forceps - Toothed - Plain	02 each
10	Tissue retractors	02
11	Curette spoon shaped	02
12	Suction Tips	05
13	Bone rongeurs	02
14	Bone wax	01
15	Suturing silk	05
16	Suturing needles	05
Periodontology		
1.	Scalars <ul style="list-style-type: none"> • Ultrasonic scaling apparatus • Manual scaling instruments <ul style="list-style-type: none"> - interdental scalars - Peri-scalars - Gracey curette - Periodontal probe 	05 each
2.	Kirkland knives	02
3.	Periodontal Curettes	05
4.	Gorman Fox scissors	10
5.	Pocket marking forceps	10
6.	Debaliey tissue forceps	10
7.	Blade handlers	05
Prosthodontics		
1.	Plaster bowls	05
2.	Plaster spatula	05
3.	Impression trays	01 pack
4.	Dental Plaster and Cements	01 pack
5.	Dental Impression Plaster	01 pack
6.	Dental Lab Stone	02
7.	Dental Wax (modeling)	01 pack
8.	Pliers; Round, Adam, Flat	01 each
9.	Wires	01 each
10.	Wire cutters	01 pack
11.	Divider	01
12.	Scale	01
13.	Wax knife	02
14.	Wax carver	02
15.	Spirit lamp	02
16.	Articulating paper	01 pack
17.	Alginate impression material	01 pack
18.	Impression compound <ul style="list-style-type: none"> - Cake form - Green stick 	01 pack each
19.	Elastomers	01 pack

20.	Cavex	01 pack
Orthodontics		
1.	Straight cutters	01
2.	Distal end cutters	01
3.	Bracket holders	01
4.	Mathew's pliers	01
5.	Band seater	01
6.	Band pushers	01
7.	Band remover	01
8.	Debonding plier (bracket remover)	01
9.	Separating pliers	01
10.	Bird beak pliers	01
11.	Adam's plier	02
12.	Round plier	02
13.	Straight plier	02
14.	Crimpable pliers	01
15.	Weingart pliers	01
16.	Cheek retractor	01
17.	Ligatures (metal & plastic)	02 packs
18.	Separators	01 pack
19.	Laceback wire	01 roll
20.	Power chains	01 pack
21.	Molar bands	01 pack
22.	Bracket sets	02 packs
23.	Molar tubes	02 packs
24.	Wires (all diameter) - Ni-Ti - Round and rectangular - Co-axial - 0.14 - 0.16 - 0.18 - 0.19x 0.25 - RS wire	01 pack each

Library: At least 10 books related to the course in Institute's library

Requirements for Cardiac Technology

Annex-N

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION	Number of Staff
Doctor	FCPS / MD / MS	One
Biomedical Engineer	BS/BSc	One
Cardiac Technician/Operator	Experience in relevant field	One

*in case a specialist doctor is not available

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 yrs	2
2 – 3 yrs	1

B. Arrangements for Practical Training

B-1: Cardiac Operation Theater

Basic Facilities

p.	Cardiac OT
q.	Heart Lungs Machine
r.	ACT Machine

Equipments

1.	Heart Lung Machine
2.	Haemothern
3.	Oxygenator Stand
4.	Cannulas
5.	IABP (intra-aortic balloon pump)
6.	Pressure bag
7.	Anesthesia Machine

8.	Suction Machine
9.	Cautery Machine
10.	Pulse Oximeter
11.	BP Cuff
12.	Fogger Machine
13.	Nebulizer / Oxygen Therapy Equipment
14.	Blood Bank Refrigerator

Marks for Practical Training:

Sr. No.	Practical Training	Total Marks
	<i>Cardiac OT (area specifications)</i>	
1	q. Cardiac OT parameters as per defined standards= 3 r. Basic Facilities = 5 s. Injections = 2	08
2	<i>Equipment</i>	07
3	Demonstration Room for Cardiac OT (within teaching campus)	05
	Total:	20

Cumulative Assessment:

Sr. No.	Cumulative Assessment	Total Marks
1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Dental Hygienist

Annex-O

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION	Number of Staff
Doctor	BDS	One
Demonstrator / Doctor	BDS	One
Dental Hygienist	Experience in relevant field	One

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 years	2
2 – 3 years	1

B. Arrangements for Practical Training

B-1: Demonstration Lab:

a) Physical Parameters

Properly ventilated Dental Clinic with at least 5 Dental Units

B-2: Functional Clinical Lab:

b) List of Equipments:

Sr. No.	Name of Electro-Medical Equipment	Requirements
1.	Dental Units with stools	5
2.	Ultra sonic scalar	5
3.	Air Compressors	5
4.	Periapical X ray Machine	One
5.	Endo Motor	5
6.	Micro motor	15+15
7.	Functional Autoclave	1

c) Arrangements for practicals

Sr. No.	Lab Practicals
1	Scaling & polishing
2	Filling
3	RCT
4	Surgical Dressing

5	Minor filling etc.
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List of materials

Sr. No.	Name of Material	Requirements
1.	Dental Anaesthesia cotrages 2 %	As per need
2.	Glass Ionomer Cement	As per need
3.	Zinc Oxide	As per need
4.	Eugenol Liquid	As per need
5.	Calcium Hydro Oxide	As per need
6.	Zinc Phosphate	As per need
7.	Cavit (temporary filling)	As per need
8.	Fluride Liquid	As per need
9.	Polishing paste	As per need

List of instruments:

Sr. No.	Name of Instruments	Requirements
1.	Diagnostic sets	25
2.	Burnisher	10
3.	Plastic instrument	10
4.	Condenser	10
5.	Peri scalar	10
6.	Inter dental Scalar	10
7.	RCT Files No. 15-40	10 packets
8.	RCT Files No. 45-80	10 packets
9.	Matrix Band	10
10.	Polishing brushes	50
11.	Extraction forceps	One set each

Marks for Practical Training:

1	Demonstration Lab within Institute a. Physical Parameters = 3 b. Equipments = 3 c. Material A = 2 d. Material B = 2 Maximum Marks = 10	10
	Functional Clinical Lab a. Physical Parameter= 3 b. Equipments = 4 c. Tasks = 3 Maximum Marks = 10	
2	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Requirements for Dispensing Opticianry

Annex P

A. Human Resource

Faculty requirements for each 25 students:

STAFF	MINIMUM QUALIFICATION	Number of Staff
Specialist Doctor/ Ophthalmologist	MBBS with FCPS (Ophthalmology)	One
Dispensing Optician	M. Phil or B.Sc (Hons)	One
Demonstrator *	MBBS / BSc (Hons)	One
Optometrist / Refractionist*	B.Sc (Hons)	One

***In case a Specialist Doctor / Ophthalmologist is not available.**

Marks for HR:

1	Number of teachers according to the specified yardstick *	12
2	Qualification of teachers according to the specified yardstick	12
3	Experience of technicians according to the specified yardstick **	3
4	Availability of full-time course coordinator	3

* A faculty member, who is Government employee, shall not be considered as part-time teacher unless s/he has a valid NOC from administrative in-charge.

** Experience in years:

5 years or more	3
3 – 5 years	2
2 – 3 years	1

B. Arrangements for Practical Training

B-1: Demonstration / Teaching Rooms within Institute:

w) Physical Parameters

65.	Properly ventilated rooms with adequate illumination : size 15 feet x 20 feet
66.	Marble tops for machinery / equipments (height 34 inch)
67.	Students lab stools (at least 10)

x) Equipments:

1.	Eye test chart / visual acuity charts
2.	Projector
3.	White Board

4.	Chairs for Students
5.	Table
6.	Lecture Stand / Presentation Dias

Functional Opticianry Lab

d) Physical Parameters

Properly ventilated and room temperature controlled laboratory:

Size: 15 feet x20 feet

Marble /PVC tops for machinery / equipment (height 34 inches

e) Equipments / Machines

OPTICIANRY TRAINING LAB TOOLS & EQUIPMENTS

8.	Auto Edger with all accessories
9.	Manual Edger
10.	Auto and Manual Buffer
11.	Tint Maker
12.	UV and Photosynthetic Lens Checker
13.	Auto Groover
14.	Hot Air Frame Warmer
15.	Basic Frame Warmer
16.	CR Cutting Machine
17.	Driller and Hinger
18.	Aqua Sonic Ultrasonic Cleaner
19.	Fucimeter
20.	Digital PD Meter
21.	Pupilometer
22.	Dispensing PD Ruler
23.	Lens Marking Machine
24.	Lens Thickness Meter
25.	Lens Clock
26.	CR Cutter
27.	Lens Cutting Seizers and Cutters
28.	Glass Lens Marking Tip
29.	Glass Lens Cutter
30.	Glass Lens Chipper
31.	Frame Storage Tray
32.	Working Stole
33.	Working Chair Revolving
34.	Wooden Chair
35.	Pattern Blanks
36.	Rubber Guard

Dispensing Hand Tools

Adjusting Pliers

- Numont Plier Tri-Angling Plier
- Combo Round Chain Nose/Delrin Plier
- Combo Flat Chain Nose/Delrin Plier
- Wide Jaw Angling Plier
- Finger Piece Plier

Bracing Plier

- Double Delrin Jaw Plier
- Zyl Gripping Plier

Chain/Snipe Nose Plier

- Long Nose Chain Plier
- Chain Nose Plier
- Hollow Snipe Nose Plier
- Round Nose Plier
- The Screw In-Forcer
- Curved Long Nose Chain Plier

Cutters Cutting Plier Facts

- Side Cutting Plier
- Concorde Carbide Cutter
- Oblique Head End Cutting Plier
- Oblique Head End Cutting Plier for Hard Metals
- Narrow End Flush Cutting Plier
- End Cutting Plier

De blocking Tools

- Briot Axcell Deblocking Plier
- Deblocking Plier

Eyewire, Temple, Bridge and Flaring Pliers

- Eyewire Forming Plier
- Narrow Eyewire and Bridge Forming Plier
- Temple Bending Plier
- Bridge Reducing
- Screw Flaring Plier

Nose Pad Adjusting Pliers

- Nose Pad Adjusting Plier
- Round Flat Nose Plier
- Pad Arm Curving Plier
- Nose Pad Popping Plier
- Budge tool Nose Pad Inserting Plier
- Combo Pad Arm/Nose Pad Adjusting Plier

Line Parallel Jaw Pliers

- Temple Angling Plier

Rimless

- Screw less Rimless Compressing Bracing Plier
- Screw less Rimless Compressing Plier/Lab use
- Rimless Bracing Plier
- Narrow End Flush Cutting Plier
- Rimless Post Pulling Plier
- Rimless Post Pushing Plier
- Rimless Tube Refresher
- Lens Harpoon
- Rimless Tube Stripper
- Screw Finishing Tool
- The Swarf Removal Tool

Deluxe Drivers

- Universal Screw and Nut Grabber
- The Stealth Driver
- Stiletto Power Driver
- Le Forque Driver Set
- Spring Clamp Screw driver

Standard Drivers

- Driveshaft Drivers
- Pocket Clip Driveshaft Drivers
- Trublue Aluminum Driveshaft Driver
- Lock Nut Ejector Wrench
- Get-A Grip Driver Cushions

Driver Blades

- Driver Blades

Lens Pliers

- Sizing and Screw Inserting Plier
- Eyewire Closing Plier
- Lens Turning Plier-20mm Curved Pads
- Lens Turning Plier-25mm Curved Pads
- Glass Chipping Plier

Tweezer, Files, Deburring, Drills and Hammer

- Self-Closing Fine Tip Tweeze
- Pillar File
- Round Rat Tail File
- Screw Head Slotting File
- Screw Finishing File
- Screw Finishing Tool
- Zylonite File
- Lens Harpoon
- The Swarf Removal Tool

<ul style="list-style-type: none"> • Double Delrin Jaw Plier • End Piece Adjusting Plier • Long Chain Nose Plier • Pantoscopic Tilt Plier <p>Shoot Frame Repair Multi-Tool</p> <ul style="list-style-type: none"> • The Shootout Frame Repair Multi-Tool Kit <p>Spring Hinge Plier Kit</p> <ul style="list-style-type: none"> • Spring Hinge Plier Kit <p>Bench Aids</p> <ul style="list-style-type: none"> • Rubber Guard Bench Block • Bench Anvil Kit <p>Lens Clocks</p> <ul style="list-style-type: none"> • Ball Tipped Lens Clock <p style="text-align: center;">Lens Measuring</p> <ul style="list-style-type: none"> • Lens Thickness Gauge • Wide Mouth Lens Caliper 	<ul style="list-style-type: none"> • Plastic Lens Screw Drill Set • Riveting Hammer <p>Frame Warmers</p> <ul style="list-style-type: none"> • Glass Beads • Hot Box Glass Bead Frame Warmer <p>Pattern Blanks</p> <ul style="list-style-type: none"> • Pattern Blanks <p>PD Rules</p> <ul style="list-style-type: none"> • 6" Stainless Steel PD Rule • 6" White Plastic PD Rule • 7" Laboratory Millimeter Rule • 7" Dispensing PD Rule • The PD Extender • PD3 Multi-Rule
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Marks for Practical Training:

	<i>Demonstration Rooms / Opticianary Lab within institute</i>	
1	e. Physical Parameters = 02 f. Equipments / Machines= 02	04
	<i>Functional Clinical Eye OPD Rooms</i>	
2	g. Physical Parameters = 02 h. Equipments / Machines= 04 i. Variety of Tests= 02	08
	<i>Functional Class Rooms & Library</i>	
3	d. Physical Parameter= 2 e. Equipments / Machines = 4 f. Variety of Tests = 2	08
	Total:	20

Cumulative Assessment:

1	Human Resource	30
2	Arrangements for practical training	20
	Total	50

Minimum marks required: 35

Memorandum of Understanding (Sample)

Annex Q

This memorandum of understanding is made on _____ between _____ hospital represented by its MS/ Director/ Owner herein named as party one and _____ Paramedical Institute/ College/ School represented by its Principal/ Owner/ Administrator herein named as party two.

Party one owns a hospital that has _____ beds strength. It is registered / provisionally licensed / licensed with Punjab Healthcare Commission under No. _____ dated _____. The hospital is equipped with the following fully functional facilities:

I:	III:
II:	IV:

The parties hitherto agree as follows:

1. Party one agrees to provide opportunity of practical training to the students admitted by party two in the following disciplines / technologies:

Category	No. of Students
a) _____	_____
b) _____	_____
c) _____	_____

2. Party two takes the responsibility of ensuring discipline of students including wearing appropriate uniform which distinguishes them.
3. Duration of practical training shall be as prescribed in the relevant curriculum of Punjab Medical Faculty (PMF).
4. Both parties shall jointly prepare a practical training plan / timetable which shall be communicated to PMF. Implementation of training plan shall be monitored by PMF and any deviations shall lead to appropriate action by the relevant regulatory authority.
5. On completion of internship/training party one shall sign a logbook / practical notebook verifying contents and duration of practical training.
6. Party one shall not enter into similar agreement with some other paramedical institution.
7. This agreement shall be valid till date of expiry of duration of affiliation of party two with PMF or two years whichever is earlier.

Signatures: _____

Signatures: _____

Name: _____

Name: _____

Designation: _____

Designation: _____

(Party One)

(Party Two)

Undertaking (Sample) (on Judicial Stamp Paper of Rs.100/-)	Annex R
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_____ hereby undertake that:
(Name of Institution)

1. All relevant rules, regulations and instructions of the Punjab Medical Faculty regarding conduct of courses in Allied Health Sciences and their examinations will be followed.
2. The Admission Policy and Eligibility Criteria for students for different courses will be strictly adhered to.
3. Information required by the Faculty, including Teaching Plan for students, will be provided as and when required.
4. Curriculum as prescribed and approved by the Punjab Medical Faculty will be followed. Duration of Courses as laid down by the Faculty will be followed.
5. Beside theoretical classes, practical hands on training will be conducted in attached hospital / health facility as per requirements of curricula prescribed by the Faculty.
6. Registration of the students will be done in accordance with the Faculty requirement. Dues / Examination Fee will be paid for students when required.
7. Classes will be started only after the grant of affiliation is confirmed by PMF.
8. I have read the Guidelines and the terms and conditions of the affiliation and will abide by them strictly. In case of default PMF will have the right to take any action as deemed appropriate including disaffiliation of the institute.

Head of Institution
/ Deponent

Dated: