

Maharashtra University of Health Sciences, Nashik

Inspection Committee Report for Academic Year 2025- 2026

Unani Faculty

(For Grant of Continuation / Extension of Affiliation for affiliated UG and PG/Fellowship/Certificate Course/Ph.D. Colleges/Institutes & Hospitals)

Important NOTE: # As per MSE 2023 chapter II

Point no 15.(1),(2) & (3) – The medical institutions fully established or under establishment before the publication of these regulations may continue with same infrastructure except for the infrastructural standards provided in said table 9 which shall be fulfilled as per the timeline provided in table. The timelines provided in the said table are maximum and no relaxation shall be provided thereafter.

(a) for the phases already established shall continue with same infrastructural standards and shall fulfil the specified standards and the time lines provided in the Table-9

- Timeline for fulfillment of criteria / requirement as per MSE 29th December 2023, TABLE- 9

* - According to MSE 2024 change and implementation is mandatory.

According to PG MSE September- 2024 – Chapter IV

Point No-10 Time lines to comply minimum essential standards by Postgraduate institutions established before notification of these regulations.— (1) Separate Postgraduate departments shall be established in the departments in which Post-Graduate programmes are conducted as per table given on page no. 151 & 152, with in twelve months period from the date of notification of these regulations.

The timeline provided in Point no 11 sub regulation 1, is the maximum and no relaxation shall be given thereafter.

Chapter I

A) Initial Information

Day and Date of Inspection	:	10/02/2025
MUHS LIC For	:	<u>Continuation / Extension of Affiliation</u>

COLLEGE DETAILS

Name of Trust / Society	:	<u>JAMIA ISLMIA ISHAATUL ULOOM</u>	
Name of President / Chairman and Secretary of Trust / Society Contact No:	:	Mol. Huzefa Gulammhammad Randera 9423183860	
Registration Certificate No:	:	Trust / Society: -Enclosed the copy. Reg. No.: B-139 (Dhule) Hospital (Bombay Nursing Act):- Enclosed the copy.	
Name of the College / Institute, Year of establishment. (As per First Affiliation letter) & (As per Previous Affiliation letter)	:	AHMAD GARIB UNANI MEDICAL COLLEGE & AS-SALAM HOSPITAL	
Address	:	Molgi Road, At. Post. Akkalkuwa Dist-Nandurbar PIn-425 415.	
Email ID	(Working Official Email ID)	:	agumch@gmail.com
	*(as per MSE 2023)	:	1996uni0298@gmail.com
Telephone / Mobile No.(s)	:	9420601333	
Website	:	www.agumch.org	
MUHS Mandate link	:		
College Code	:	NCISM Code: UNI0298	MUHS Code: 133102

Details of the Dean/Principal	:	
Name of the Dean/ Principal	:	Prof. Hkm. Ansari Masood Ahmad
Mobile No.	:	9423486458
Office Landline	:	02567252120
E-mail	:	dr_masood@live.com
Nature of Appointment	:	Approved / Not Approved / Officiating

College Type	College Location	Program			
		UG	PG	Ph.D.	Other
(Government / Government-Aided / Government Aided Minority /Private / Private Minority / Corporation)	Urban / Rural / Tribal				
Private Minority	Tribal	Yes	NO	NO	NO

Existing Course Details:

Sr.	Under Graduate	Intake
1	BUMS	60

Sr.	Post Graduate Degree Programme or Specialities	Intake	PG Diploma	Intake	Ph.D.	Intake
1	Kulliyat-e-Tib (Basic Principles of Unani Medicine)	-N.A.-				
2	Manafeul Aza (Human Physiology)	-N.A.-				
3	Ilmul Advia (Materia Medica ,Pharmacology and Pharmacognosy)	-N.A.-				
4	Ilmul Saidla (Materia Medica ,Pharmacutics and Clinical Pharmacy)	-N.A.-				
5	Tahaffuzi wa Samaji Tib (Unani Dietetics Life Style Management Preventive Medicine and Public Health)	-N.A.-				
6	Tibbul Qanoon wa Imul Samoom (Forensic Medicine & Clinical Toxicology)	-N.A.-				
7	Amraze Atfal (Paediatrics)	-N.A.-				
8	Moalajat (Medicine)	-N.A.-				
9	Mahiyatul Amraz (Pathology and Laboratory Diagnosis)	-N.A.-				
10	Ilaj bit Tadabeer (Regimenal Therapy)	-N.A.-				
11	Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	-N.A.-				
12	Tashreehul Badan (Human Anatomy)	-N.A.-				
13	Ilmul Jarahat (Surgery)	-N.A.-				
14	Amraze Uzn, Anaf wa Halaq (Diseases of Ear Nose and Throat)	-N.A.-				
15	Amraze Niswan wa Qabalat (Gynecology and Obstetrics)	-N.A.-				

Sr. No	Fellowship	Intake	Certificate Course	Intake	Other	Intake
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Status of NAAC Accreditation :		
Accredited(Yes / No/NA)	If Yes, Grade & Date of last Inspection	If No, what is current status/ progress of work
No		Under process

*Note : 1) Attach NAAC Accreditation Certificate, if applicable.
2) NAAC Accreditation Applicable for those colleges, whose first admitted batch, has passed out from the college.
3) NAAC Accreditation Certificate shall be made available on college website*

Status of QCI (Quality Council of India) :	
Gradation (Yes / No/ NA)	Yes
Grade & Date of last Inspection	“B” Dated 9,10 October 2024.

All India Survey on the Higher Education “AISHE”	Available / Not Available
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B) Fees Details**Continuation / Extension of Affiliation Fees Details for A.Y. 2025 - 2026**

Sr. No.	Course	Paid / Not Paid	Amount	Outstanding (if any)	Reasons of Non-payment
1	BUMS	PAID	200000/-		

C) * Bank Details**a) For College**

Nationalized / Co-operative/Private Bank Account Details: NATIONALIZED

Salary Account Details :

Name of Bank & Branch : HDFCBANK AKKALKUWA BRANCH

Account Number : 50100129271627

IFSC Code : HDFC0004099

b) For Hospital

Nationalized / Co-operative/Private Bank Account Details :

Salary Account :

Name of Bank & Branch : HDFC BANK AKKALKUWA BRANCH

Account Number :50100129271627

IFSC Code :HDFC0004099

Audited Financial Report : Attach Audited report of previous financial year

Chapter II

Property Details of College

A. * Land Requirement:
(Refer Unani UG-MSE 2023)
Institute Under: Tier I: Tier II: Other: **Tribal Areas**

Sr .	Intake Capacity	Land Requirement (in Acres)			Land Available in Acres	Adequate/Inadequate	Deficiency if any
		Tier I	Tier II	Other			
1	60 seats	2.5	2.5	3.0	3.78	Adquate	
2	100 seats	3.5	3.5	5.0			
3	150 seats	5.0	5.0	7.0			
4	200 seats	6.0	6.0	9.0			

B) * College campus and general considerations:

Sr. No.	Description	Available / Not Available	Verified by Committee	Deficiency
1	Sale Deed (if applicable)	Available		
2	Land Registration details	Available		
3	Lease Deed (if applicable)	Not Applicable		
4	Property Tax Paid Receipt of Concern Land	Available		
5	Land Conversion (NA Certificate)	Available		
6	Non Encumbrance Certificate of Concern Land	Available		
7	Zoning Plan	Available		
8	Building Plan (College, Hospital, Hostel)	Available		
9	Building Completion (College, Hospital, Hostel)	Available		
10	Building Occupancy (College, Hospital, Hostel)	Available		
11	Sewage treatment plant	Under Process		
12	Electricity Backup Plan(Generator/Inverter/Solar etc)	Available		

C) * Information Technology Cell and Information Technology Infrastructure
(As per MSE 23)

- a) Internet Connection Speed (min req. 500 Mbps) - Available / ~~Not Available~~
_____ Mbps
- b) Intranet & Local Area Network Connectivity - Available / ~~Not Available~~
- c) Virtual Laboratory - Available / ~~Not Available~~
- c) Required Software
- i) Hospital Information Management Software - Available / ~~Not Available~~
- ii) Library / OPAC Management System - Available / ~~Not Available~~
- iii) Account Management System - Available / ~~Not Available~~
- iv) College Management System - Available / ~~Not Available~~
- v) Learning Management System: - Available / ~~Not Available~~
- vi) Plagiarism Software (if required) - Available / ~~Not Available~~
- d) Digital Library - Available / ~~Not Available~~
- e) College Website including all contents (As per MSE 23) - Available / ~~Not Available~~
- f) Aadhaar Enabled Biometric or iris recognition or face rec. attendance - Available / ~~Not Available~~
- (As per MSE 23)*
- g) Closed-Circuit Television (CCTV) (As per MSE 23) - Adequate / ~~Inadequate~~

Chapter III

MINIMUM ESSENTIAL STANDARDS

A) *Central Library

(As per MSE 23)

Minimum Essential Standards for Central Library

Sr. No.	Intake Capacity	Seating Capacity	Minimum Number of Books	Minimum required area (sq. mtr.)	Number of minimum indexed scientific journals	Number of stations with computer systems *		Deficiency
						Wifi	NonWifi	
1	60	75	8000	150	10	6	15	
2	100	120	10000	250	10	10	25	
3	150	180	12000	350	10	15	35	
4	200	240	15000	450	10	20	45	
Available	→ 60	75	12500	200	10	7	20	

Note: Index journals means scientific journals of related subjects indexed in Pub-Med, Web of Science, University Grants Commission-Consortium for Academic Research and Ethics(UGC-CARE), Science Citation Index and Scopus.

Sr. No.	Details	Available / Not Available	Deficiency
1)	The biometric attendance for all students for Central Library	Available	
2)	The biometric attendance for all teaching Staff for Central Library	Available	
3)	The catalogue coding system (physical or automated) in library entrance.	Available	
4)	Display facility at appropriate place in library for newly arrived books. All the newly arrived books are to be displayed for specific duration as per the Institutional library policy or minimum of fifteen days.	Available	
5)	The seating arrangement in reading room unidirectional pattern and face to face seating shall be avoided or partition shall be provided in case of face-to-face seating arrangement.	Available	
6)	Closed-Circuit-Television (CCTV) surveillance in entire library	Available	
7)	The library etiquettes display at the entrance of the library.	Available	
8)	Library Timing as per norms Monday to Saturday - from 9:00 A.M. to 8:00P.M Sunday from 10:00 A.M. to 2:00 P.M	Available	
9)	Toilets facility for male and female students in Library	Available	
10)	Drinking water (hot and cold) facility in Central Library	Available	
11)	Journals and books published by the Central Council for Research in Unani Medicine	Available	

The central library shall provide the following services, namely: -

- | | |
|---|--|
| (a) Book issue and return | : - Available / Not Available |
| (b) Indexing | : - Available / Not Available |
| (c) Copying facility | : - Available / Not Available |
| (d) Book reservation system | : - Available / Not Available |
| (e) Assistance in using library | : - Available / Not Available |
| (f) Institutional Library Discipline Maintenance Policy duly approved | : - Available / Not Available |

by the College Council shall be in place

***Various committees for Academic Administration –**

Sr.	Name of Committee	Available / Not available	Work Done Satisfactory / Not Satisfactory
1	Human Resource development committee	Available	Satisfactory
2	Research Innovation and Entrepreneurship Development Cell	Available	Satisfactory
3	Internal Quality Assurance Cell	Available	Satisfactory
4	College Council	Available	Satisfactory
5	Academic Committee	Available	Satisfactory
6	Students council	Available	Satisfactory
7	Student support, career guidance and placement cell	Available	Satisfactory
8	Co-curricular and extra-curricular	Available	Satisfactory
9	Grievance Redressal Cell	Available	Satisfactory
10	Committee Against Sexual Harassment	Available	Satisfactory
11	Pharmacovigilance Committee	Available	Satisfactory

Various committees for Academic Administration for PG Course–

Sr.	Name of Committee	Available / Not available	Work Done Satisfactory / Not Satisfactory
1	Institutional research committee	Not Applicable	
2	Institutional ethics committee for human Subjects	Not Applicable	
3	Institutional animal ethics committee	Not Applicable	
4	Clinical Research Cell	Not Applicable	
5	Plagiarism Scrutiny Cell	Not Applicable	

GENERAL REQUIREMENT FOR POST GRADUATE COURSE

Sr. No.	Particulars	Minimum Requirement as per Intake Capacity	Available	Deficiency
1	Central Library	Seating Capacity - One Seat For Every Two Postgraduate Students Of Yearly Intake Capacity Seating Capacity = (Total Intake / 2) Excluding Ug Seating Capacity		
		200 Additional Books For Each Postgraduate Department Shall Be Made Available. These Additional Books Shall Be Specific To The Postgraduate Department.		
		At Least 10 Per Cent. Of Yearly Addition Of Books		
		4 Journals (Indexed) Specific To Each Postgraduate Specialty Journal = Total No. Of Specialty * 4		
2	Departmental Library books	Minimum 100 Books Shall Be Made Available For Each Postgraduate Departmental Library.		
3	Digital Library	Additional Computer Systems For Postgraduate Students In The Ratio Of 1:5 (Total Annual Intake Capacity Of All Postgraduate Programme)		
		Software Or Computer Programme Such As Grammarly, Plagiarism Check, Statistical Programs, Citation Or Bibliography Maker		

		Computer= Total Annual Intake Capacity Of All Postgraduate Programme / 5		
4	Department of Integrative Health and Translational Research	Central Research Laboratory		
		Quality Testing Laboratory,		
		Clinical Research Cell		
		Plagiarism Scrutiny Cell		
		As Applicable Shall Function Under This Department		
		Phytochemistry Laboratory		
	Green House			
5	Central Research Laboratory	As Per MSE Schedule		
6	Quality Testing Laboratory	As Per MSE Schedule		
7	Animal house and animal experimentation laboratory	As Per MSE Schedule		
		Ilmul Advia, Ilmul Saidla, , Tahaffuzi wa Samaji Tib and Kulliyat.		
8	Integrative Health and Translational Research	One Full Time Regular Professor As per MSE Schedule 2024 And A Biostatistician, Biochemist, Microbiologist And Pharmacologist Shall Be Appointed On Part Time Basis		

Other Facilities

1. Separate Boys & Girls Common Facilities: Available / ~~Not Available~~

2. Hostel

Hostel Details	Own /Rented	No. of Room	Student per Room	No. of Student
Girls Hostel	Own	35	4	130
Boys Hostel	Own	30	4	80

3. Canteen

a. Appropriate License : Available / ~~Not Available~~

b. Seating capacity – Staff : Available / ~~Not Available~~

Students : Adequate / ~~Inadequate~~

Patients and Relatives : Adequate / ~~Inadequate~~

4. **Teacher attendance** (preceding twelve months to the month of assessment)

a. Total No. of Teachers on Roll : 37

b. Total No. of Teachers above 75% attendance : 37

c. Total No. of Teachers below 75% attendance : 00

Dean/ Principal of the College

Member

Member

Chairman

CHAPTER IV
MINIMUM ESSENTIAL STANDARDS FOR AN ATTACHED TEACHING HOSPITAL

Name of Hospital : AS-SALAM HOSPITAL

Total No. of Beds : 60

A) Statutory Requirement for Hospital –

Sr.	Name of Document	Registration No	Valid From	Valid Up-to	Bed Strength
1	Hospital registration with Bombay Nursing Act (First and Current)*	02	15-05-2023	31-03-2026	60
2	Bio Medical Waste*	301	07-12-2013	31-12-2025	
3	Fire Safety Certificate*	126/2024	25-10-2025	31/12/2025	
4	Maharashtra Pollution Control Board*	979	14-06-2024	30-11-2025	
5	NABH accreditation (at least entry level) *	Under process			

* enclosed all certification

B) Facilities –

a. Screening OPD	Available / Not Available
b. Stair case or escalators or lifts / Ramp	Available / Not Available
e. Disabled-friendly toilets for males and females	Available / Not Available
⦿ Centralized announcement system	Available / Not Available
e. Intercom Facility to all departments	Available / Not Available
⦿ Fire Safety facility	Available / Not Available
⦿ Drinking Water (Purified Water)	Available / Not Available
⦿ Suggestion Box	Available / Not Available
i. Hospital Information Management Software	Available / Not Available

C) Attendance of patients Out Patient Department

No. of OPD (Out Patients Department) Patients During Last 12 Months													
OPD DATA Months >>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	Total
Moalajat	1004	1014	903	847	1182	566	1842	1254	970	1372	1511	1320	13785
Ilaj bit Tadabeer	235	223	171	195	224	219	266	258	208	239	194	202	2634
Jarahat	803	712	500	528	968	685	983	978	785	755	542	1079	9318
Ain Uzn Anaf Halaq wa Asnan	558	546	452	396	984	308	681	701	596	797	376	451	6846
Amraze Jild wa Tazeeniyat	373	394	239	323	386	294	417	403	512	355	369	661	4880
Qabalat wa Niswan	518	488	441	315	418	468	519	468	467	499	436	505	5542
Ilmul Atfal	373	340	324	266	545	562	572	465	583	804	788	649	6971
Tahaffuzi wa Samaji Tib	253	220	182	145	220	183	231	244	190	190	87	144	2289
Ilmul Samoom	7	33	10	0	29	30	40	35	5	6	4	9	206
Isabat (Casualty)	0	0	8	3	3	4	4	57	52	81	44	120	376
Total	4124	3970	3284	3018	4959	3319	5555	4861	4368	4798	4351	5240	51847

$$\text{Avg. OPD} = \frac{\text{Total Number of OPD}}{300} =$$

D) Attendance of patients In Patient Department

No. of IPD (In Patients Department) Patients During Last 12 Months													
IPD DATA Months >>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	Total
Moalajat	62	78	68	59	83	54	82	62	63	66	37	64	778
Ilaj bit Tadabeer	12	14	7	14	14	7	12	10	10	9	7	10	126
Amraze Jild wa Tazeeniyat	22	22	20	31	21	25	31	21	20	24	18	20	275
Ilmul Atfal	22	20	17	22	26	32	34	35	29	25	20	23	305
Jarahat	77	80	70	77	68	55	60	70	50	42	43	45	737
Ain, Uzn, Anaf, Halaq wa Asnan	27	25	31	34	35	26	25	19	18	25	19	20	304
Qabalat wa Niswan	42	16	17	23	26	31	42	25	20	31	28	28	319
Total	264	255	230	260	273	230	286	242	210	222	172	210	2854

$$\text{AVG IPD} = \frac{\text{Total Number of IPD}}{365}$$

E) Total Number of Bed Days Occupied

Details of Total Bed Days Occupied Patients During Last 12 Months													
BED Occupancy Months >>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	Total
Moalajat	401	395	369	382	434	395	408	395	395	393	553	362	4682
Ilaj bit Tadabeer	117	108	88	92	103	91	107	79	91	82	100	103	1161
Amraze Jild wa Tazeeniyat	111	102	78	105	101	128	104	95	86	85	90	84	1169
Ilmul Atfal	103	100	84	82	121	116	126	133	111	104	89	99	1268
Jarahat	223	215	224	215	258	204	244	262	222	196	186	198	2647
Ain, Uzn, Anaf, Halaq wa Asnan	103	91	112	121	128	104	119	115	89	119	89	104	1294
Qabalat wa Niswan	195	172	188	197	166	149	191	182	196	186	176	215	2213
Total	1253	1183	1143	1194	1311	1187	1299	1261	1190	1165	1083	1165	14434

F) Total Number of Beds Existed Patients During Last 12 Months

Sr. No.	Name of Department	No. of Existing Beds for UG	Additional Bed for Existing PG (Clinical Dept) : Bed Ration 1:4	Total No. of Available Beds
1	Moalajat	12	0	12
2	Ilaj bit Tadabeer	12	0	12
3	Amraze Jild wa Tazeeniyat	6	0	6
4	Ilmul Atfal	3	0	3
5	Jarahat	12	0	12
6	Ain, Uzn, Anaf, Halaq wa Asnan	3	0	3
7	Qabalat wa Niswan	12	0	12

Total Number of Beds Occupied During Last 12 Months : **65.90%**

$$\text{Bed Occupancy in \%} = \frac{\text{Number of Bed Occupied} \times 100}{\text{Number of Beds} \times 365 \text{ Days(1 Year)}} :$$

F) Hospital information for P.G. Only			
Number of Beds	:	_____ (UG)+ _____ (PG)Beds (Please refer PG Unani Regulation 2016))	
Number of Students	:	_____ (intake) X _____ (clinical subject) = _____ X 4 (student ratio) =	
Equipment's	:	Adequate /Inadequate	
Number of Registrars(R) /House officers(HO)	:	R – _____ HO – _____	
Number of available additional Non teaching staff	:	_____ Non-Teaching Staff	

G) Details of Specialty Clinic

Sr. No.	Specialty Clinic	Under the Department of	Conducted By Department
1			
2			
3			
4			
5			

H) Labour Room (During Last 12 Months):

- Total number of Deliveries conducted :16
- Number of other procedures conducted :438

I) Operation Theatre (During Last 12 Months):

- Total Number of operations done :436
- Total Number of Major Procedures :98
- Total Number of Minor Procedures :266

J) Investigations (During Last 12 Months)

- Total number of X-rays done :3105
- Total number of ECG done :199
- Total number of USG done :130

K) Clinical Laboratory (During Last 12 Months)

- Total Number of Hematological Tests :10938
- Total Number of Bio-Chemical Tests :2669
- Total Number of Serological Test :2008
- Total Number of Microbiological Tests :8219

L) Details of Ilaj Bit Tadbeer (Procedures) (carried out During Last 12 Months)

S.No.	Procedures Carried Out	From OPD	From IPD	Total
1	Hamam	421	209	630
2	Hijama			
3	Irsale Alaq			
4	Dalk	1749	882	2631
5	Fasd	5	4	9
6	Nutool			
7	Huqna			
8	Takmeed			
9	Bukhoor			
10	Abzan			
11	Others	1740	899	2639

Dean/ Principal of the College

Short Comings Observed, UG Course-

Short Comings Observed PG/Ph.D./Fellowship Course-

Important Instructions & Declarations:

- a. Our College is fully aware that our college is responsible to fulfil and maintain norms including the infrastructure both physical and human resources, teaching faculty and clinical material throughout Academic Year as per MSR/Council norms/University norms. In case false/wrong declaration or fabricated documents is submitted for purpose of Affiliation of the University by the College and if it is found by the University at any stage, then our college is fully aware that affiliation will be withdrawn by the University with immediate effect with penal action.
- b. It is certified that our college has uploaded all above Annexures on our college website and it will be kept ready for verification of Local Inquiry Committee (LIC). Our college is fully aware that University will not grant Continuation of Affiliation, in case if required information, is not uploaded on college website
- c. Our College hereby undertake that all Annexures information will be made available on college website for a period of next 05 years. Year-wise information of all Annexures will be made available on college website for a period of 05 years from time to time. In case if any information (Annexure wise) is called- for by the University in intermittent period, our college will furnish required information to the University immediately.

Date : / /

Signature of Dean/Principal

Place :

Name of the Signatory-

(with Seal of the College / Institute)

DECLARATION BY LIC

We hereby certify that, the College has uploaded Annexures as prescribed by University on College Website and it is duly verified by our Committee. Details of Information of Annexure/s which is not uploaded on College Website is mentioned in LIC Report.

Name of Assessor/Visitor		Sign. of Assessor/Visitor with Date
1)	Chairman	
2)	Member	
3)	Member	
4)	Member	

Note : All Annexures must be certified by LIC Team & Principal of Respective College.

Schedule I

General Consideration for Land

A. * Land Requirement:

(Refer MSE UG Unani 2023)

Institute Under: Tier I:

Tier II: Other:

Sr.	Intake Capacity	Land Requirement (in Acres)			Land Available (in Acres)	Adequate/Inadequate	Deficiency if any
		Tier I	Tier II	Other			
1	60 seats	2.5	2.5	3.0	3.78		
2	100 seats	3.5	3.5	5.0			
3	150 seats	5.0	5.0	7.0			
4	200 seats	6.0	6.0	9.0			

1. **Tier I** - Mega and Metro City (Mumbai, Pune)

2. **Tier II** - North-eastern States, Hilly areas and notified tribal areas

3. **Any other** - Area except the areas specified in Serial Number 1 and 2

4. * - for the land requirements the following conditions need to be adhered;

(a) The land required in Mega and Metro cities shall be calculated on the basis of required constructed area as provided in these regulations and municipal corporation by-laws.

(b) The built-up area has to be approved by the concerned development authority as per the latest building byelaws (development controls) in those cities.

(c) A copy of certified building by-laws shall be made available by the applicant institution.

(d) Copy of the approved plan from local statutory body and the completion plan along with completion certificate from the same body, shall be provided.

(e) The provisional occupancy certificate shall be considered only for three consecutive academic years;

(f) Thereafter only completion certificate and completion plan shall be considered for continuance of approval

Dean/ Principal of the College

SCHEDULE II

Minimum constructed area required for Administrative Section

Serial No.	Section or Units	Minimum required area (square meters)				Avai lable	De fic ie ncy
		Sixty students intake capacity	One hundred students intake capacity	One hundred fifty students intake capacity	Two hundred students intake capacity		
(1)	(2)	(3)	(4)	(5)	(6)		
1	Administrative section						
	Head of the Institution (Director or Dean or Principal) room including anteroom and attached toilet						
	Personal Assistant to head of the institution (Director or Dean or Principal)						
	Visitors lounge for visitors to head of the institution (Director or Dean or Principal)						
	Staff committee room						
	Vice Principal or Deputy Dean or Deputy Director (If any)	200	250	300	350	200	
	Office superintendent						
	Office- Establishment and Administration, Account Section and Cash Counter						
	Waiting area for office visitors						
	# Record room						
	Central store						
	Toilets for office staff						
	Pantry						
2	Lecture hall or Classrooms						
	Five lecture halls or Classrooms	500 (5×100)	750 (5×150)	1000 (5×200)	1250 (5× 250)	500	
3	Seminar or Conference or Examination or Yoga and Riyazat Hall (Multipurpose hall)	150	300	450	600	1200	
4	Library						
	Central library	150	250	350	450	200	
	# Digital library	40	50	60	70	45	
5	Teaching departments	1475	2525	3625	4800		
	(1) Kulliyat (Basic Principles of Unani Medicine) Department with a. # Kulliyat Umoore Tabiya Practical Laboratory cum Tutorial Room b. # Museum cum Tutorial Room for Tareekh-E Tib c. # Language Laboratory	100	125	150	175	120	
	(2) Tashreehul Badan (Anatomy) Department with a. Dissection Hall b. Practical lab c. Museum cum Tutorial room	150	300	450	600	250	
	(3) Manafeul Aza (Physiology) Department with a. Practical Laboratory b. Tutorial room	100	200	300	400	100	
	(4) Ilmul Advia (Pharmacology) Department with a. Ilmul Advia (Pharmacology) Practical Lab b. Wasful Aqaqir (Pharmacognosy) Practical Lab c. Herbarium and Museum cum Tutorial room	175	275	400	550	120	

	(5) Ilmul Saidla (Unani Pharmacy) Department with a. Ilmul Saidla Practical Laboratory (Teaching Pharmacy) b. Quality Testing Laboratory c. Museum cum Tutorial room	175	275	400	550	100	
	(6) Mahiyatul Amraz (Pathology) Department with a. Mahiyatul Amraz (Pathology) Practical Lab b. Museum cum Tutorial room	100	200	300	400	120	
	(7) Tahaffuzi wa Samaji Tib (Preventive and Social Medicine) Department with 1. Tahaffuzi wa Samaji Tib (Preventive and Social Medicine) a. # Nutrition lab b. Practical lab c. Museum cum Tutorial room. 2. Tibbul Qanoon wa Ilmul Samoom (Forensic Medicine and Clinical Toxicology) a. Practical Lab b. Museum cum Tutorial room	150	275	400	550	120	
	(8) Moalajat (Medicine) Department with Museum cum Tutorial room	75	125	175	225	120	
	(9) Ilaj bit Tadabeer (Regimenal Therapy) Department with Museum cum Tutorial room	75	125	175	225	80	
	(10) Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology) Department with Museum cum Tutorial room	75	125	175	225	80	
	(11) Ilmul Atfal (Paediatrics) Department with Museum cum Tutorial room	75	125	175	225	80	
	(12) Jarahat (Surgery) including Department with Museum cum Tutorial room	75	125	175	225	80	
	(13) Ain, Uzn, Anaf, Halaq wa Asnan (Ophthalmology, Ear, Nose and Throat, Dentistry) Department with Museum cum Tutorial room	75	125	175	225	80	
	(14) Qabalat wa Niswan (Obstetrics and Gynaecology) Department with Museum cum Tutorial room	75	125	175	225	80	
6	# Clinical skill or Simulation Laboratory (Common area + demo or practice room)	125 (75+50X1)	200 (100+50X2)	275 (125+50X3)	350 (150+50X4)	125	
7	# Human Resources and Development Cell (Workshop area + office, store, circulation area, toilet)	130 (80+50)	150 (100+50)	170 (120+50)	190 (140+50)	130	
8	# Research and Innovation Cell	30	30	30	30	30	
9	# College Council Room	50	100	150	150	50	
10	# Student Council Room	20	20	20	20	20	
11	# Student Support and Guidance Cell including Career Guidance and Placement Cell room	25	25	25	25	25	
12	# Pharmacovigilance Cell- Room	20	20	20	20	20	
13	Common rooms for students (Boys and Girls separately)	100 (50+50)	200 (100+100)	300 (150+150)	400 (200+200)	100	
14	Common rooms for teaching faculty (Male and Female separately)	50 (25+25)	60 (30+30)	70 (35+35)	80 (40+40)	50	
15	College Canteen	100	150	200	250	100	
	Total	3165	5080	7045	9035	3870	
<p>Note: 1. For Central workshop , Information Technology cell and Internal Quality Assurance cell, an adequate space separately for each shall be provided by the college or institution as per their requirement.</p> <p>2. The Student Support and Guidance Cell including Career Guidance and Placement room may be a common facility for Grievance Redressal Cell and Committee Against Sexual Harassment for their meetings and keeping related records and documents.</p>							

Dean/ Principal of the College

Member

Member

Chairman

SCHEDULE III

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF HERBAL GARDEN

Serial No.	Particulars	Minimum required area (square meter)				Available	Deficiency
		sixty students intake capacity	one hundred students intake capacity	one hundred fifty students intake capacity	two hundred students intake capacity		
(1)	(2)	(3)	(4)	(5)	(6)		
1	Herbal garden (a well-developed herbal garden with minimum two hundred species of medicinal plants with demonstration room of twenty- five to fifty square meters)	2500	4000	4000	4000	4086.82	

Dean/ Principal of the College

SCHEDULE IV

MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF HOSPITAL STAFF IN THE ATTACHED TEACHING HOSPITAL

Serial No.	Department/Section/Unit	Minimum Requirement of Hospital Staff (Intake capacity wise)				Available	Deficiency	
		sixty students intake capacity (3)	one hundred students intake capacity (4)	one hundred fifty students intake capacity (5)	two hundred students intake capacity (6)			
(1)	(2)							
Administrative Zone								
1	Medical Director	Principal or Dean or Director as per the clause (b), sub regulation (9) of regulation 14.				1		
2	Medical Superintendent	1	1	1	1	1		
		Full-time regular incumbent other than the teaching staff. Qualification as per the clause (c), sub regulation (9) of regulation 14.						
3	Deputy Medical Superintendent	1	1	1	2	1		
		Full-time regular incumbent other than the teaching staff. Qualification as per the sub-clause (i), clause (d), sub regulation (9) of regulation 14.						
4	Administrator	1	1	1	2	1		
		Qualification as per the clause (e), sub regulation (9) of regulation 14.						
5	Consultants	Teachers of Moalajat, Ilaj bit Tadabeer, Amraze Jild wa Tazeeniyat, Ilmu Atfal, Jarahat, Ain Uzn Anaf Halaq wa Asnan, Qabalat wa Niswan and Tahaffuzi wa Samaji Tib departments				13		
6	Resident Medical Officer-Admin	Resident Medical Officer -Admin shall be one among the Resident Medical Officer or Resident Surgical Officer in the hospital.				5		
7	Matron or Nursing Superintendent	1	1	1	1	1		
		Qualification as per the clause (h), sub regulation (9) of regulation 14.						
8	Assistant Matron	1	1	2	3	1		
		Qualification as per the clause (i), sub regulation (9) of regulation 14.						
9	Office Superintendent (Graduation with five-year administrative experience)	1	1	1	1	1		
10	Clerical staff (Graduation with computer knowledge) or Account staff (B. Com or M. Com with computer knowledge)	1	2	3	4	1		
11	Storekeeper (Minimum 12 th Standard)	1	1	1	1	1		
	Modern Medical Staff (physical presence of modern medical staff is not mandatory for inspection or visitation)							
12	Medical specialist	One (full time or part time or on contract basis)				1		
13	Surgical specialist	One (full time or part time or on contract basis)				1		
14	Obstetrician or Gynaecologist	One (full time or part time or on contract basis)				1		
15	Pathologist	One (full time or part time or on contract basis)				1		
16	Radiologist	One (full time or part time or on contract basis)				1		
17	Anesthesiologist	One (full time or part time or on contract basis)				1		
18	Ophthalmologist	One (full time or part time or on contract basis)				1		
19	ENT specialist	One (full time or part time or on contract basis)				1		
Reception and Registration Zone								
20	Receptionist cum Telephone Operator (Graduate with computer knowledge and communication skill)	1	2	3	4	1		

21	Registration cum Billing Clerk (Graduate with computer knowledge and communication skill)	1	2	3	4	1	
22	Medical Record Technician (with graduate degree) (Medical Record Technician-not required in case of fully computerized hospital)	1	1	1	1	1	
Out-Patient Department Zone							
23	Emergency Medical Officer	2	2	2	2	2	
		Qualification as per the clause (f), sub regulation (9) of regulation 14.					
24	Resident Medical Officer	1	1	1	1	1	
		Qualification as per the clause (f), sub regulation (9) of regulation 14.					
25	Nursing staff (01 for Qabalat wa Niswan Out-Patient Department and 01 for Isabat)	2	2	2	2	2	
		Qualification as per the clause (j), sub regulation (9) of regulation 14.					
26	Pharmacist (Dispensary or Pharmacy or Drug Store)	2	2	3	4	2	
		Qualification as per the clause (l), sub regulation (9) of regulation 14.					
27	Out-Patient Department Attendant (with minimum 10 th standard)	1	1	2	2	1	
Diagnostic Zone							
28	Lab Technician	2	2	3	4	2	
		Qualification as per the clause (k), sub regulation (9) of regulation 14.					
29	Lab Attendant (with minimum 10 th standard)	1	1	2	2	1	
30	X-Ray Technician	1	1	1	1	1	
		Qualification as per the clause (n), sub regulation (9) of regulation 14.					
31	Dark room Assistant (with minimum 12 th standard. Preference should be given to candidate having Certificate course of Dark Room assistant) (In case of non-digital x-ray unit)	1	1	1	1	1	
32	Nursing staff for Ultrasonogram (USG) and Electrocardiogram (ECG)	1	1	1	1	1	
		Qualification as per the clause (j), sub regulation (9) of regulation 14.					
In-Patient department Zone							
Medical In-Patient department Section							
33	Resident Medical Officers (RMO)	2	2	2	2	2	
		Qualification as per the clause (f), sub regulation (9) of regulation 14.					
34	Nursing staff (one for every ten beds)	4	6	9	12	4	
		Qualification as per the clause (j), sub regulation (9) of regulation 14.					
35	Ward boy or Ayah (one for every 20 beds)	2	3	4	6	2	
Surgical In-Patient department Section							
36	Resident Surgical Officer (RSO)	2	2	2	2	2	
		Qualification as per the clause (f), sub regulation (9) of regulation 10.					
37	Nursing staff (one for every ten beds)	2	4	6	8	2	
		Qualification as per the clause (j), sub regulation (9) of regulation 10.					
38	Ward boy/Ayah (one for every 20 beds)	1	2	3	4	1	
Procedural Management Zone							
Ilaj bit Tadabeer Procedure Section							
39	IBT Specialists	Teachers of Ilaj bit Tadabeer Department				2	

40	Nursing staff	1 (female)	1 (female)	2 (1 male + 1 female)	2 (1 male + 1 female)	1	
		Qualification as per the clause (j), sub regulation (9) of regulation 10.					
41	Therapist	4 (2 male+ 2 female)	8 (4 male + 4 female)	12 (6 male + 6 female)	16 (8 male + 8 female)	4	
		Qualification as per the clause (o), sub regulation (9) of regulation 14.					
42	Attendant (minimum 10 th standard)	1	1	2	2	1	
43	Receptionist cum clerk	1	1	1	1	1	
44	House Officer or Clinical registrar or Senior Resident (with Bachelor of Unani Medicine and Surgery Degree)	1	1	1	1	1	
Masrah Amaliya (Operation Theatre and Minor Operation Theatre)							
45	Jarahat and Ain Uzn Anaf Halaq wa Asnan Specialists	Teachers of Jarahat and Ain Uzn Anaf Halaq wa Asnan Departments				4	
46	Nursing staff (Female)	1	1	2	2	1	
		Qualification as per the clause (j), sub regulation (9) of regulation 14.					
47	Operation theatre Technician	1	1	2	2	1	
		Qualification as per the clause (p), sub regulation (9) of regulation 14.					
48	Operation theatre Assistant	1	1	2	2	1	
		Qualification as per the clause (q), sub regulation (9) of regulation 14.					
49	Operation theatre Attendant (minimum 10 th standard and trained)	1	1	2	2	1	
50	Dresser (minimum 10 th standard and trained)	1	1	2	2	1	
Ghurfatul Wilada (Labour room and Maternity Operation Theatre)							
51	Qabalat wa Niswan Specialists	Teachers of Qabalat wa Niswan Department					
52	Nursing staff	1	1	2	2	1	
		Qualification as per the clause (j), sub regulation (9) of regulation 14.					
53	Ayah	1	1	2	2	1	
Physiotherapy Unit							
54	Physiotherapist (Minimum BPT)	1	1	1	1	1	
		Qualification as per the clause (g), sub regulation (9) of regulation 14.					
55	Attendant (Minimum 10 th standard and trained)	1	1	1	1	1	
Service Zone							
56	Ghiza Makhsoosa (Specific diet)-cook	1	1	2	3	1	
57	Multitasking worker (Minimum 10 th standard)	1	1	1	1	1	
	Total	65	78	107	127	65	
Note: Security guards, electrician, plumber, sanitary workers, washer man, gardener, driver, housekeeping staff, attendant/peon, cook, gardener, maintenance staff, central sterile services department technician, information technology technician etc. may be obtained by outsourcing.							

SCHEDULE-V

MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF TEACHING STAFF IN AN UNANI MEDICAL COLLEGE

(1) Teaching Department	Minimum Requirement of Teaching Staff												Available	Deficiency
	sixty students intake capacity (2)			one hundred students intake capacity (3)			one hundred fifty students intake capacity (4)			two hundred students intake capacity (5)				
	Prof	Asso.P	Asst.P	Prof	Asso.P	Asst.P	Prof	Asso.P	Asst.P	Prof	Asso.P	Asst.P		
1. Kulliyat (Basic Principles of Unani Medicine)	1 or 1		1 Kulliyat + 1 Arabic or Urdu or Mantiq	1	1	1 Kulliyat + 1 Arabic or Urdu or Mantiq	1	1	2 Kulliyat + 2 Arabic or Urdu or Mantiq	1	2	2 Kulliyat + 2 Arabic or Urdu or Mantiq	4	
2. Tashreehul Badan (Anatomy)	1 or 1		1	1	1	1	1	2	1	2	2	2	2	
3. Manafeul Aza (Physiology)	1 or 1		1	1	1	1	1	2	1	2	2	2	2	
4. Ilmul Advia (Pharmacology)	1 or 1		1	1	1	1	1	2	1	2	2	2	2	
5. Ilmul Saidla (Unani Pharmacy)	1 or 1		1	1	1	1	1	2	1	2	2	2	2	
6. Mahiyatul Amraz (Pathology)	1 or 1		1	1	1	1	1	2	1	2	2	2	3	
7. Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)	1 or 1		2	1	1	2	1	2	3	2	2	4	4	
8. Moalajat (Medicine)	1 or 1		3	1	1	3	1	2	4	2	2	5	4	
9. Ilaj bit Tadabeer (Regimenal Therapy)	1 or 1		1	1	1	1	2	2	2	2	2	3	3	
10. Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	1 or 1		1	1	1	1	2	2	2	2	2	3	2	
11. Jarahat (Surgery)	1 or 1		1	1	1	1	2	2	2	2	2	3	2	
12. Ain, Uzn, Anaf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry)	1 or 1		1	1	1	1	2	2	2	2	2	3	2	
13. Qabalat wa Niswan (Obstetrics and Gynaecology)	1 or 1		1	1	2	1	2	3	2	2	2	4	2	
14. Ilmul Atfal (Paediatrics)	1 or 1		1	1	1	1	2	2	2	2	2	3	3	
Sub total	14		18	14	14	19	14	22	34	22	28	42		
Total		32			47			70			92		37	

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<p>Note:</p> <p>1. Apart from the above, one yoga teacher or instructor on full time basis (one for sixty, one hundred, one hundred fifty student intake capacity and two i.e. one male and one female for two hundred student intake capacity), one Biostatistician including Research Methodology and Medical Statistics on part time basis in the Department of Tahaffuzi wa Samaji Tib, and one Physical Education Director on full time basis shall be engaged in the college;</p> <p>2. Wherever additional Professors or Associate Professor are available in the department, the additional Professor may be considered against the requirement of Associate Professor or Assistant Professor and additional Associate Professor may be considered against the requirement of Assistant Professor. For example- in a college with students intake capacity from sixty one to Hundred student intake capacity, if there are three Professors or one Professor and two Associate Professor or one Professor, one Associate Professor and one Assistant Professor against the requirement of One Professor, One Associate Professor and One Assistant Professor in the Department of Manafeul Aza the college is fulfilling the requirement of faculty in this department and there is no shortcoming of faculty in this department.</p> <p>3. Additional Professor or Associate Professor (Reader) or Assistant Professor (Lecturer) available in any other Department, shall not be counted or considered in the department where there is a shortage of faculty.</p>		
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SCHEDULE-VI

MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF NON-TEACHING STAFF (TECHNICAL AND OTHER STAFF) IN AN UNANI MEDICAL COLLEGE

Serial No. (1)	Department or Section or Unit (2)	Minimum Requirement of non-teaching staff (Students Intake capacity wise)				Available	Deficiency
		sixty students intake capacity (3)	one hundred students intake capacity (4)	one hundred fifty students intake capacity (5)	two hundred students intake capacity (6)		
Administrative section							
1	Personal Assistant or Personal Secretary to Principal or Dean or Director (Graduation with Secretarial Training)	1	1	1	1	1	
2	Office Superintendent (Graduation with five year of administrative experience)	1	1	1	1	1	
3	Clerical Staff for administrative and account services (Clerical staff-Graduation with computer knowledge and Accounts staff-B.Com or M.Com with computer knowledge)	3	4	6	9	3	
Central Library							
4	Librarian (with Bachelor in Library Science or Masters in Library Science with five years of Library experience)	1	1	1	1	1	
5	Assistant Librarian (with with Bachelor in Library Science or Masters in Library Science)	1	1	2	2	1	
6	Library Attendant (minimum 10 th standard)	1	1	2	2	1	
Teaching Departments							
(1) Kulliyat (Basic Principles of Unani Medicine)							
7	Attendant (with minimum 10 th standard)	1	1	1	1	1	
(2) Tashreehul Badan (Anatomy)							
8	Cadaver lifter	1	1	1	1	1	
9	Lab Assistant (with minimum 12 th standard)	1	1	2	2	1	

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10	Attendant cum Museum Keeper (with minimum 10 th standard)	1	1	2	2	1	
(3) Manafeul Aza (Physiology)							
11	Lab Technician (with Diploma or Bachelor degree in Medical Lab Technology)	1	1	2	2	1	
12	Multitasking worker (with minimum 10 th standard)	1	1	2	2	1	
(4) Ilmul Advia (Pharmacology)							
13	Lab Technician or Pharmacognosist Ilmul Advia (Pharmacology) Practical Lab and Wasful Aqaqir (Pharmacognosy) Practical Lab (with MSc Botany); and Lab Assistant (minimum 12 th standard with Chemistry and Biology)	1+1	1+1	2+2	2+2	2	
14	Attendant cum Museum Keeper (Herbarium and Museum cum Tutorial room) (with minimum 10 th standard)	1	1	4	4	1	
(5) Ilmul Saidla (Unani Pharmacy)							
15	Lab Technician for Quality testing Laboratory (B Pharm or M Pharm)	1	1	1	1	1	
16	Attendant cum Museum Keeper (Teaching Pharmacy and Museum or Quality Testing Lab) (with minimum 10 th standard)	1	1	4	4	1	
(6) Mahiyatul Amraz (Pathology)							
17	Lab Technician (with Diploma or Bachelor degree in Medical Lab Technology)	1	1	2	2	1	
18	Attendant cum Museum Keeper (with minimum 10 th standard)	1	1	2	2	1	
(7) Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)							
19	Nutritionist or Lab Technician (Nutrition Lab) (with BSc or Nutrition and Dietetics)	1	1	2	2	1	
20	Attendant cum Museum Keeper (with minimum 10 th standard)	1	1	2	2	1	
(8) Moalajat (Medicine), (9) Ilaj bit Tadabeer (Regimenal Therapy) (10) Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology) (11) Ilmul Atfal (Paediatrics) (12) Jarahat (Surgery) (13) Ain, Uzn, Anaf, Halaq wa Asnan (Ophthalmology, Ear, Nose and Throat and Dentistry) (14) Qabalat wa Niswan (Obstetrics and Gynaecology).							
21	Attendant cum museum keeper or multitasking worker (with minimum 10 th standard)	7	7	7	7	7	

# Clinical Skill or Simulation Laboratory							
22	Coordinator (Bachelor of Unani Medicine and Surgery graduate preferably with training or orientation on handling of manikins and simulators)	1	1	1	1	1	
23	Office Assistant (graduation with computer knowledge)	1	1	1	1	1	
# Human Resource Development Cell							
24	Coordinator (Bachelor of Unani Medicine and Surgery preferred with Post Graduation or Postgraduate Diploma Management)	1	1	1	1	1	
25	Office Assistant (graduation with computer knowledge)	1	1	1	1	1	
# IT Cell including Digital Library							
26	IT Officer (Bachelor of Engineering or Bachelor of Technology Computer Science or Master in Computer Application)	1	1	1	1	1	
27	IT Assistant (Bachelor of Science Computer Science, Bachelor in Computer Application)	1	1	2	3	1	
28	Multi-Tasking Staff	1	1	1	1	1	
# Central Workshop/ Maintenance Cell							
29	Site Engineer (with Bachelor of Engineering or Bachelor of Technology preferably civil)	1	1	1	1	1	
Herbal garden							
30	Gardener	1	1	2	2	1	
31	Multi-purpose worker	1	1	2	2	1	
	Total	40	41	64	68	40	
Note: Additional Staff like Sweeper, attendant, lifter, data entry operator, security guards, electrician, plumber, carpenter, driver, multi-purpose worker etc. may be obtained by outsourcing.							

As Per MSE 2024

Minimum essential non-teaching Staff required for the college*Minimum (Additional) Requirement for Post -graduate Institutions where Under-graduate course is in existence:**

Sr.No	Post	Particulars	Available Staff	Deficiency
(i) In each of the department of Tashreeh ul Badan, Munafe ul Aza, Ilmul Advia, Ilmul Saidla, Mahiyal Amraz and Jarahat, the following non-teaching staff shall be required in addition to the under-graduate staff requirement:				
(i)	Laboratory technician	1 (one)	Not Applicable	
(ii)	Laboratory assistant	1 (one)	Not Applicable	
(iii)	Attendant or Peon or Multipurpose worker	1 (one)	Not Applicable	
(ii) The Additional Ancillary staff like Biochemist, Pharmacologist, Bio Statistician, Microbiologist to be appointed and the Qualification shall be Post Graduate degree in the subject concerned or equivalent qualification from a recognised University.)				
(i)	Biochemist	1 (one)	Not Applicable	
(ii)	Pharmacologist	1 (one)	Not Applicable	
(iii)	Bio Statistician	1 (one)	Not Applicable	
(iv)	Microbiologist	1 (one)	Not Applicable	

Minimum Essential Requirements of Non-Teaching Staff for Postgraduate departments in undergraduate college**(In addition to the non-teaching staff in undergraduate departments as per student intake capacity specified in MES-UG)**

Serial number	Department	Required Non- Teaching Staff	Required Numbers	Available Staff	Deficiency
01	Department of In Integrative Health and Translational Research				
	(a) Central Research Laboratory	In-Charge (Faculty member of any department well-versed with laboratory and analytical equipment)	1	Not applicable	
		Lab Technician (B.Sc. Chemistry or B.Sc. Botany)	1	Not applicable	
	# (b) Clinical Research Cell	Clinical Research Coordinator (BUMS with Post graduation degree or Diploma in Clinical Research or MPH)	1		
		Clerk	1		
Multitasking Staff		1			

Dean/ Principal of the College

SCHEDULE-VII

**MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF MODELS, EQUIPMENT AND INSTRUMENTS
ETC., FOR KULLIYAT UMOORE TABIYA PRACTICAL LABORATORY CUM TUTORIAL
ROOM, MUSEUM CUM TUTORIAL ROOM FOR TAREEKH-E TIBB AND
LANGUAGE LABORATORY UNDER THE DEPARTMENT OF KULLIYAT**

Serial No. (1)	Instruments and Equipment (2)	sixty students intake capacity (3)	one hundred students intake capacity (4)	one hundred fifty students intake capacity (5)	two hundred students intake capacity (6)	Available	Deficiency.
# I. Kulliyat Umoore Tabiya Practical Lab cum Tutorial Room							
A. Charts for Demonstration							
1	Flow Chart of 'Ilme Tibb and its Classifications	Assorted				Available	
2	Flow Chart of the Tabiat	Assorted				Available	
3	Graphical representation of Kaifiyat-e Arba	Assorted				Available	
4	Tabular representation of Arkan-e Arba with reference to Kaifiyat-e Arba	Assorted				Available	
5	Demonstration of 'Anāshir Insāniyya in the Periodic Table	Assorted				Available	
6	Flow Chart of the Mizaj	Assorted				Available	
7	Tabular description of Ajnas-e Ashra to identify Human Temperament	Assorted				Available	
8	Flow Charts for Akhlat-e Arba	Assorted				Available	
9	Flow Charts for A'za	Assorted				Available	
10	Flow Charts for Quwa	Assorted				Available	
11	Flow Charts for Arwah	Assorted				Available	
12	Flow Charts for Af'al	Assorted				Available	
B. Models for Demonstration and Spotting							
13	Models for Aaza-e Raeesa	Assorted				Available	
14	Models for Aazae- Adna	Assorted				Available	
15	Models for Aaza-e Muhaiyya	Assorted				Available	
16	Models for Aaza-e Muaddia	Assorted				Available	
17	Models for Quwwat-e Nafsaniah	Assorted				Available	
18	Models for Quwwat-e Haiwaniyah	Assorted				Available	
19	Models for Quwwat-e Tabiyah	Assorted				Available	
20	Models for Quwwat-e Tansauliyah	Assorted				Available	
21	Models for Aaza-e Harrah	Assorted				Available	
22	Models for Aaza-e Baridah	Assorted				Available	
23	Models for Aaza-e Rataba	Assorted				Available	
24	Models for Aaza-e Yabisa	Assorted				Available	
C. Practical Lab Equipments							
25	Models for Aalat-e-Hawas-e Khamsa Zahirah	Assorted				Available	
26	Models for Aaza-e Murakkaba	Assorted				Available	
27	Models for Aaza-e Mufradah	Assorted				Available	
28	Models for Aaza-e Manwiya	Assorted				Available	
29	Models for Aaza-e Damwia	Assorted				Available	
30	Blood Pressure Apparatus	One	Two	Three	Four	1	
31	Microscope with oil immersion	Two	Four	Six	Eight	2	
32	Stethoscope	Five	Ten	Fifteen	Twenty	5	

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33	Weighing Scale	One	One	One	One	1	
34	Height Scale	One	One	One	One	1	
35	Stopwatch	One	One	One	One	1	
36	Thermometer	One	One	One	One	1	
37	Barometer	One	One	One	One	1	
38	Glucometer	One	One	One	One	1	
39	Pulse Oximeter	One	One	One	One	1	
40	Globe	Three	Four	Five	Six	3	
41	World Maps Large	Two	Two	Two	Two	2	
42	Glassware	One	One	One	One	1	
43	Surgical gloves	As required				Availab le	
44	Gloves powder	As required				Availab le	
45	Surgical blade	Assorted				Availab le	
46	Soap	As required				Availab le	
47	Disposable syringe and needle	Assorted				Availab le	
48	Wash Basin	As required				Availab le	
49	Glass jars	Assorted				Availab le	
50	Refrigerator	One				1	
51	Prepared slides of Tissues	Assorted				Availab le	
52	Spirit Lamp	As required				Availab le	
53	Dropper	Assorted				Availab le	
54	Test Tube	Assorted				Availab le	
55	Test Tube Stand	Assorted				Availab le	
56	Test Tube Holder	Assorted				Availab le	
57	Yellow Top Tube or SST	Assorted				Availab le	
58	Centrifuge Machine	As required				Availab le	
59	Laboratory Thermometer	As required				Availab le	
60	Hemocytometer	As required				Availab le	
61	Cotton Bolls	Assorted				Availab le	
62	Air Quality Monitor	As required				Availab le	
63	Wintrobe Tube	As required				Availab le	
64	Potential of Hydrogen (pH) Pen	As required				Availab le	
65	A wire Loop	As required				Availab le	
66	Incinerating Dish	As required				Availab le	
67	Muffle Furnace	One				Availab le	
68	Thermocouple	As required				Availab le	
69	Newton's Color Disc	As required				Availab le	
70	Wrist Arm Strength Gripper	As required				Availab le	
71	Colorimeter	As required				Availab le	
72	Lancets	As required				Availab	

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			le	
73	Temperature Humidity Air Pressure Meter	As required	Availab le	
74	Syringe	Assorted	Availab le	

75	Ethylenediaminetetraacetic acid Tube	Assorted	Availab le	
76	Fluoride Tube	Assorted	Availab le	
77	Scissors	Assorted	Availab le	
78	Treadmill	One	Availab le	
79	Pole Climbing Apparatus	As required	Availab le	

II. Museum Cum Tutorial Room for Tareekh-E Tib (History of Medicine)

A. Pictures or Text or Historical description of the following:

1	Babylonian Medicine: Hammurabi	Assorted	Availab le	
2	Egyptian Medicine: Imhotep, Medical papyri	Assorted	Availab le	
3	Chinese Medicine: Fu Hsi, Shen Nong, Huangdi	Assorted	Availab le	
4	Ayurveda: Charaka, Sushruta	Assorted	Availab le	
5	Unani Medicine: Asclepius I, Hygeia, Panacea, Telesphorus	Assorted	Availab le	
6	Buqrat (Hippocrates): The Father of Medicine	Assorted	Availab le	
7	Siddha Medicine: eighteen Siddhars and Agasthiyar, the father of Siddha	Assorted	Availab le	
8	Sowa-Rigpa system of Medicine	Assorted	Availab le	
9	Greco-Roman: Galen (Jalinoos), Dioscorides	Assorted	Availab le	
10	Greco-Arab: Rabban Tabri, Abu Sahl Masihi, Avicena (Ibn-e-Sina), Abuclasis (Abul Qasim Zahrawi), Hazen (Ibn-e- Haitham), Abu Rehan Al Al Barooni, Avenzoar (Ibn-e- Zuhr), Averroes (Ibn-e- Rushd), Maimonides (Moosa Bin Maimon), Ismail Jurjani, Ibn-e-Baytar, Najeebuddin Samaqandi, Ibn-e- Nafees, Nafees Bin 'Iwad Kirmani	Assorted	Availab le	
11	Indian Unani Physicians: Zia Mohammad Massod Rashid Zangi, Shahab Abdul Karim Nagori, Ali Gilani, Akbar Arzani, Alvi Khan, Sharif Khan, Ahmad Gilani, Azam Khan, Ajmal Khan, Syed Ghulam Husnain Kantoori, Mohammad Kabiruddin	Assorted	Availab le	
12	Distinguished Unani Institutions: Madarsae Iskandria, Madarsae Jundishahpur, Baitul Hikmat	Assorted	Availab le	
13	Medical Code of Conduct: Hippocratic Oath, Hummurabi's Medical code of ethics, Code of Ethics of Chinese medicine, Code of Ethics of Ayurveda, Code of Ethics of Tibb-e-Nabvi, Ethical Code for the Physicians as Constituted by the National Commission for Indian System of	Assorted	Availab le	

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	Medicine			
14	Unani Medical Text: Kitab al-Tabiyatul Insan, Fusool-e Buqratia (Hippocratic Corpus), Mu'aedah- e Buqratia, Jawame al-Iskandreeneen (Alexandrine Collection), Kitab al-Masail, 'Ashr Maqalat fil-'Ain, Firdaus-ul Hikmat, Kitab al-Hawi, Kitab al- Mansuri, Kamil Us-Sana'at, Kitab al- Mi'at, Al- Qanoon fi-Tib, Kitab al- Tasreef, Kitab al- Kulliyat, Zakheera-e Khwarzam Shahi, Kitab al-Asbab wa al- Alamat, Mo'jaz al-Qanoon, Sharah-e Asbab wa al- Alamat, Sharah-e Nafeesi,	Assorted	Available	
	Majmua-e Ziyai Tibb-e Shahabi, Sharah-e Qanoon, Tibb-e Akbar, Qarabadeen Quadri, Talkhees Tibb-e Nabwi, Mufarreh-ul Quloob, Jame-ul Jawame Ahmad Shahi, 'Ilaj-ul Amraz			
	B. Models			
15	Stone Plates (Khishti Takhtiyani)	Assorted	Available	
16	Liver and Skull Model of Babylonian Medicine	Assorted	Available	
17	Classical Model and Equipment used in Chinese Medicine	Assorted	Available	
18	Classical Model and equipment used in Ayurveda, Siddha and Sowa-Rigpa	Assorted	Available	
19	Classical Model and equipment used in Unani Medicine	Assorted	Available	
	III. Language Laboratory			
	Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide all facilities including equipment, instruments, specimens etc., for conducting practical listed in the syllabus and for demonstrative teaching.			

SCHEDULE-VIII

**MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS FOR DISSECTION HALL,
PRACTICAL LABORATORY AND MUSEUM CUM TUTORIAL ROOM UNDER THE DEPARTMENT OF TASHREEHUL BADAN
(ANATOMY)**

Serial No. (1)	Instruments and Equipment (2)	sixty students intake capacity (3)	one hundred students intake capacity (4)	one hundred fifty students intake capacity (5)	two hundred students intake capacity (6)	Available	Deficiency
A. Dissection Hall							
1	Tank with a capacity to preserve 2-4 bodies	Essential				Available	
2	Dissection Sets	Ten	Fifteen	Twenty	Twenty-five	10	
3	Dissecting Table						
	a. Full size with stainless steel top or marble top	Three	Five	Eight	Ten	3	
	b. Half size with stainless steel top or marble top	Three	Five	Seven	Ten	3	
4	X-ray viewing box	Three	Four	Five	Six	3	
5	Bone cutter of the numbers $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$ – fine pointed Chisel bone dissector	As required				Available	
6	Surgical gloves	As required				Available	
7	Surgical blade	As required				Available	
8	Disposable syringe and needle	As required				Available	
9	Wash Basin	As required				Available	
10	Preservative Chemicals	As required				Available	
11	Glass jars	Assorted				Available	
12	Embalming Machine (optional)	One				1	
13	Band saw (optional)	One				1	
14	Hand saw	One				1	
15	Histology slides	Assorted				Available	
16	Binocular Microscope	Four	Six	Eight	Ten	4	
17	Stools for students (preferably revolving)	Assorted				Available	
18	Furniture and other equipment	Assorted				Available	
Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide all facilities including equipment, instruments, specimens etc., according to student intake capacity for smooth conduct of practicals listed in the syllabus and for demonstrative teaching.							
B. Museum cum Tutorial Room							
1	Specimens such as skeleton, bones, joints, preserved organs etc.,	As required				Available	
2	Models or charts					Available	

SCHEDULE-IX

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS FOR MANAFEUL AZA (PHYSIOLOGY) PRACTICAL LABORATORY AND TUTORIAL ROOM UNDER THE DEPARTMENT OF MANAFEUL AZA (PHYSIOLOGY)

Serial No. (1)	Equipment and Instruments (2)	sixty students intake capacity (3)	One hundred students intake capacity (4)	One hundred Fifty students intake capacity (5)	Two hundred students intake capacity (6)	Available	Deficiency
1	Microscope with oil immersion	Thirty	Fifty	Seventy-five	One hundred	30	
2	Westergren's pipette for Erythrocyte Sedimentation Rate	Thirty	Fifty	Seventy-five	One hundred	30	
3	Westergren's stand	Thirty	Fifty	Seventy-five	One hundred	30	
4	Haematocrit Tube	Thirty	Fifty	Seventy-five	One hundred	30	
5	Packed Cell Volume (PCV) Pipette	Thirty	Fifty	Seventy-five	One hundred	30	
6	Sahli's Haemoglobinometer	Thirty	Fifty	Seventy-five	One hundred	30	
7	Haemocytometer	Thirty	Fifty	Seventy-five	One hundred	30	
8	Stethoscope	Ten	Twenty	Thirty	Forty	10	
9	Clinical Thermometer	Ten	Twenty	Thirty	Forty	10	
10	Knee Hammer	Ten	Twenty	Thirty	Forty	10	
11	BP Apparatus	Ten	Twenty	Thirty	Forty	10	
12	Tuning forks	Ten	Twenty	Thirty	Forty	10	
13	Electrocardiograph Machine	One	One	Two	Two	1	
14	Stop watches	Thirty	Fifty	Seventy-five	One hundred	30	
15	Water Distillation Unit	One	One	One	One	1	
16	Weighing machine	One	Two	Three	Four	1	
17	Height measuring stand	One	Two	Three	Four	1	
18	Balance-Electronic	One	Two	Three	Four	1	
19	Snellen chart	Two	Two	Four	Four	2	
20	Centrifuge with speed control	One	Two	Three	Four	1	
21	Colorimeter (Photoelectric)	One	Two	Three	Four	1	
22	pH Meter (Electric)	One	Two	Three	Four	1	
23	pH Comparator with disc	One	Two	Three	Four	1	
24	Newton's colour wheel	One	Two	Three	Four	1	
25	Sterilizer	One	One	Two	Two	1	
26	Peak expiratory flow meter	One	Two	Three	Four	1	
27	Spirometer	One	Two	Three	Four	1	
28	Urinometer	One	Two	Three	Four	1	
29	Compass aesthesiometer	One	One	Two	Two	1	
30	Thermal aesthesiometer	One	One	Two	Two	1	
31	Hand grip dynamometer	One	One	Two	Two	1	
32	Harvard step	One	One	Two	Two	1	
33	Lancet pen	Ten	Fifteen	Twenty	Twenty-five	10	
34	Disposable syringe and needles	As required				Available	
35	Needle destroyer	As required				Available	
36	Refrigerator	One	One	One	One	1	
37	Bunsen burner	Ten	Fifteen	Twenty	Twenty-five	10	
38	Spirit lamp	Six	Six	Ten	Ten	6	
39	Tripod stand	Ten	Fifteen	Twenty	Twenty-five	10	
40	Cover slips	As required				Available	
41	Glassware	As required				Available	

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42	Microslides	As required	Available	
43	Reagents	As required	Available	
44	Torch	As required	Available	
45	Measuring tape	As required	Available	
46	Blotting paper	As required	Available	
47	Stools for students (preferably revolving)	As required	Available	
Note: The listed items in the table are minimum essential standard requirements. The department shall maintain and provide all facilities including equipment, instruments, chemicals/reagents, chart, models etc., according to student intake capacity for smooth conduct of the practicals listed in the syllabus and for demonstrative teaching.				

SCHEDULE-X

**MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF EQUIPMENT AND INSTRUMENTS FOR ILMUL ADVIA
(PHARMACOLOGY) PRACTICAL LABORATORY, WASFUL AQAQIR (PHARMACOGNOSY) PRACTICAL LABORATORY,
HERBARIUM AND MUSEUM CUM TUTORIAL ROOM UNDER THE DEPARTMENT OF ILMUL ADVIA**

Serial No.	Equipment and Instruments	sixty students intake capacity	One hundred students intake capacity	One hundred Fifty students intake capacity	Two hundred students intake capacity	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
A. Ilmul Advia Practical Laboratory							
1	Silbatta						
	a. Small	Two	Four	Eight	Ten	2	
	b. Medium	Two	Four	Eight	Ten	2	
	c. Large	Two	Four	Eight	Ten	2	
2	Kharal (Pestle and mortar)						
	a. Sange Marmar	Two	Four	Eight	Ten	2	
	b. Sange Siyah	Two	Four	Eight	Ten	2	
	c. Sange Sumaaq	Two	Four	Eight	Ten	2	
3	Distillation apparatus	One	One	One	One	1	
4	Soxhlet apparatus with heating unit	One	One	Two	Two	1	
5	Havan Dasta (for Pounding)	Two	Four	Eight	Ten	2	
6	Centrifuge	Two	Four	Six	Eight	2	
7	Clevenger Apparatus	Two	Two	Four	Four	2	
8	Centrifuge tube	As required				Available	
9	Test tube	Assorted				Available	
10	Test tube holder	Assorted				Available	
11	Test tube rack	Assorted				Available	
12	Conical flask	Assorted				Available	
13	Glass rod size 8	As required				Available	
14	Dropper	As required				Available	
15	Beaker (100 ml, 250 ml, 500 ml, 1000 ml)	As required				Available	
16	Measuring jars (Glass) (10 ml, 25 ml, 100 ml, 500 ml)	As required				Available	

17	Measuring jars (Plastic or Fiber) (10 ml, 25 ml, 100 ml, 500 ml)	As required				Available	
18	Heating device						
	a. Gas stove	As required				Available	
	b. Bunsen burner	As required				Available	
	c. Induction stove	As required				Available	
19	Balance						
	a. Physical	One	One	Two	Two	1	
	b. Electronic	One	Two	Three	Four	1	
20	Refrigerator	One	One	One	One	1	
21	Vessels						
	a. Copper	Assorted				Available	
	b. Steel	Assorted				Available	
	c. Iron	Assorted				Available	
	d. Earthen	Assorted				Available	
22	Ladle, Spatula, Spoon etc.,	Assorted				Available	
23	Juice extractor	As required				Available	
24	Glass jars	As required				Available	
25	Pasteur pipette 1 ml	As required				Available	
26	Pipette	As required				Available	
27	Funnel	As required				Available	
28	Round bottom flask with iron mesh	As required				Available	
29	Watch glass 80 mm	As required				Available	
30	Platinum wire	As required				Available	
31	Brush	As required				Available	
32	Blotting or Filter paper	As required				Available	
33	pH indicator paper	As required				Available	
34	Knives	Assorted				Available	

35	Steel plates	Assorted				Available	
36	Enamel tray	Assorted				Available	
37	Areca nut cutter	As required				Available	
38	Chopping pad	Assorted				Available	
39	Surgical gloves	As required				Available	
40	Water bath	One	One	Two	Two	1	
41	Spirit lamp	As required				Available	
42	Chemicals and reagents	As required				Available	
43	Almirahs and racks for storage	As required				Available	
44	Test tubes and test tube racks	As required				Available	
45	Fire extinguisher	One				1	
46	Muffle Furnace	One				1	

Note: 1. The listed items in the table are minimum essential standard requirements. The department shall maintain and provide all facilities including equipment, instruments, chemicals or reagents etc., according to student intake capacity for the smooth conduct of practicals listed in the syllabus and for demonstrative teaching.

2. Fire safety measures should be available.

B. Wasful Aqaqir (Pharmacognosy) Practical Laboratory

Plant Anatomy

1	Field magnifier	Six	Ten	Fifteen	Twenty	6	
2	Trinocular microscope with digital camera	One	One	Two	Two	1	

3	Compound microscope	Fifteen	Twenty	Twenty-five	Thirty	15	
4	Watch glass	Fifteen	Twenty	Forty	Fifty	15	
5	Micro slides (boxes)	Five	Ten	Fifteen	Twenty	5	
6	Cover glass (boxes)	Five	Ten	Fifteen	Twenty	5	
7	Wash bottles	Five	Ten	Fifteen	Twenty	5	
8	Slide box with permanent slides	Required as per the syllabus					
9	Plastic dropper bottle-10 ml	Thirty	Fifty	Seventy-five	Hundred	30	
10	Petri dishes-set	Thirty	Fifty	Seventy-five	Hundred	30	
11	Chemicals and reagents	As required				Available	
Plant Taxonomy							
12	Dissecting Microscope	Thirty	Fifty	Seventy-five	Hundred	30	
13	Enamel trays	Fifteen	Twenty-five	Forty	Fifty	15	
14	Hand magnifier	Thirty	Fifty	Seventy-five	Hundred	30	
15	Specimen bottles (500 ml)	As required				Available	
16	Dissection box with brushes, needles, and razor/blades	Thirty	Fifty	Seventy-five	Hundred	30	
17	Formaldehyde (Preservation)	As required				Available	
Chromatography						15	
18	Thin Layer Chromatography Chamber	Fifteen	Twenty	Twenty-five	Fifty	1	
19	Thin layer chromatography pre- coated plates (in boxes)	One	Two	Three	Four	15	
20	Thin layer chromatography glass	Fifteen	Twenty	Twenty-five	Fifty	15	
	plates						
21	Mortar and Pestle	Five	Ten	Fifteen	Twenty	5	
22	Reagent bottle	Ten	Twenty	Thirty	Forty	10	
23	Beaker-250 ml	Ten	Twenty	Thirty	Forty	10	
24	Beaker-100 ml	Ten	Twenty	Thirty	Forty	10	
25	Conical flask	Five	Ten	Fifteen	Twenty	5	
26	Glass funnel	Ten	Twenty	Thirty	Forty	10	
27	Micro pipette	Fifteen	Twenty	Twenty-five	Fifty	15	
28	Measuring cylinder-10ml	Ten	Twenty	Thirty	Forty	10	
29	Measuring cylinder-25 ml	Ten	Twenty	Thirty	Forty	10	
30	Measuring cylinder- 100 ml	Ten	Twenty	Thirty	Forty	10	
31	Whatsman filter paper roll	One	Two	Three	Four	1	
32	Filter paper round-box	Five	Ten	Fifteen	Twenty	5	
33	Capillary tube (Box)	One	Two	Three	Four	1	
34	Chemicals and reagents	As required				Available	
Miscellaneous							
35	Electronic balance	One	Two	Three	Four	1	
36	Chemical balance	One	One	One	One	1	
37	Ocular micrometer	One	Two	Three	Four	1	
38	Stage micrometer	One	Two	Three	Four	1	
39	Camera Lucida prism type and mirror type (optional)	One	Two	Three	Four	1	
40	Hot plates	One	Two	Three	Four	1	
41	Liquified Petroleum Gas cylinder with burner	As required				Available	
42	Stools for students (preferably revolving)	As required				Available	

43	Refrigerator	One				1	
Herbarium							
44	Plant press	Ten	Fifteen	Twenty	Twenty -five	10	
45	Wooden Field press	Ten	Fifteen	Twenty	Twenty -five	10	
46	Vasculum/Botanical box	Five	Ten	Fifteen	Twenty	5	
47	Herbarium cabinet	One	One	One	One	1	
48	Gardening tools for herbal garden (Spade, hand hoes, rake, crowbar, garden scissors, secateurs, water hose, hand sprinkler, sand bond etc.,	As required				Available	
Note: The listed items in the table are minimum essential standard requirements. The department shall maintain and provide all facilities including equipment, instruments, chemicals or reagents etc., according to student intake capacity for the smooth conduct of practicals listed in the syllabus and for demonstrative teaching.							
C. Museum Cum Tutorial Room							
1	Advia Nabatiya (Herbs)	Specimens of concerned categories (Poisonous substances should be preserved safely in locked display shelf cabinet)				Available	
2	Advia Madaniya (Metals and Minerals)					Available	
3	Advia Haywaniya (Animal					Available	

	derivatives)						
4	Herbarium cabinet with Urdu alphabetical cases	one hundred specimens	one hundred fifty specimens	two hundred specimens	two hundred fifty specimens	260	
5	Permanent microslide specimens	Twenty				20	

SCHEDULE-XI

MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF EQUIPMENT AND INSTRUMENTS ETC., FOR ILMUL SAIDLA (UNANI PHARMACY) TEACHING PHARMACY OR PRACTICAL LABORATORY, QUALITY TESTING LABORATORY AND MUSEUM CUM TUTORIAL ROOM
UNDER THE DEPARTMENT OF ILMUL SAIDLA (UNANI PHARMACY)

Serial No.	Equipment and Instruments	sixty students intake capacity	One hundred students intake capacity	One hundred Fifty students intake capacity	Two hundred students intake capacity	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
A. Ilmul Saidla Practical Laboratory (Teaching Pharmacy)							
1	Silbatta						
	a. Small	Ten	Twenty	Thirty	Forty	10	
	b. Medium	Ten	Twenty	Thirty	Forty	10	

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			nty					
	c. Large	Ten	Twenty	Thirty	Forty	10		
2	Kharal (Pestle and mortar)							
	a. Sange Marmar	Two	Three	Four	Five	2		
	b. Sange Siyah	Two	Three	Four	Five	2		
	c. Sange Summaq	Two	Three	Four	Five	2		
	d. Porcelain	Ten	Twenty	Thirty	Forty	10		
	e. Iron	Two	Four	Six	Eight	2		
3	Distillation apparatus including traditional apparatus such as Qara Ambiq, Nal Bhabka, Patal Jantar, Jal Jantar, Damru Jantar, Tareeqe Lolabi, Tareeqe habli, Hammame mayiya etc.	One each	Two each	Three each	Four each	Available		
4	Havan Dasta (for Pounding)	Ten	fifteen	Twenty	twenty-five	10		
5	Boota (Crucibles)	Ten	Twenty	Thirty	Forty	10		
6	Putt (bhatti) (Different kinds)	Ten	Ten	Ten	Ten	10		
7	Phunkni (Blower)	Two	Four	Six	Eight	2		
8	Heating device							
	a. Gas stove	Fifteen	Twenty	Twenty-five	Thirty	15		
	b. Induction stove	As required				Available		
	c. Choolha or Angeethi (Charcoal or wooden block)	As required				Available		
	d. Hot plate	As required				Available		
9	Balance different capacities							

	a. Physical	One	Two	Three	Four	1		
	b. Electronic	One	Two	Three	Four	1		
	c. Chemical	One	One	Two	Two	1		
10	Vessels, jars, plates, tray etc.							
	a. Brass vessels and containers	Assorted				Available		
	b. Copper vessels and containers	Assorted				Available		
	c. Steel vessels and containers	Assorted				Available		
	d. Iron vessels and containers	Assorted				Available		
	e. Mud or Earthen vessels and containers	Assorted				Available		
	f. Frying pan	Assorted				Available		
	g. Spatula	Assorted				Available		
	h. Ladle and spoon	Assorted				Available		
	i. Steel plates	Assorted				Available		
	j. Enamel tray	Assorted				Available		
	k. Plastic tray	Assorted				Available		
	l. Jars and Containers	Assorted				Available		
11	Grinding machines							
	a. Mixer grinder	One	Two	Three	Four	1		
	b. Wet grinder	One	One	Two	Two	1		
12	Pyrometer	Assorted				Available		
13	Refrigerator	One	One	One	One	1		
14	Thermometer	As required				Available		

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15	Knives	Assorted	Available	
16	Scrappers	Assorted	Available	
17	Chopping pad	Assorted	Available	
18	Measuring equipment of different sizes (glass)	Assorted	Available	
19	Porcelain jars for fermentation purpose	Assorted	Available	
20	Sieves (Different size and numbers)	Assorted	Available	
21	Juice extractor	Assorted	Available	
22	Pressure cooker	Assorted	Available	
23	Fire extinguisher	One	Available	
24	Spirit lamp	Assorted	Available	
25	Almirahs and Racks for storage	Assorted	Available	

Note: 1. Putt (Bhatti) shall be maintained in the suitable area in the college premises to demonstrate different process.

2. The listed items in the table are the minimum essential standard requirements. However, the department shall maintain facilities including equipment, instruments, etc., for the smooth conduct of practicals listed in the syllabus and for demonstrative teaching.

3. Fire safety measures should be available.

B. Quality Testing Laboratory

1	Tablet Disintegration apparatus		Available	
2	Muffle furnace		Available	
3	Soxhlet apparatus with heating unit		Available	
4	Magnetic stirrer		Available	
5	Water bath (Temperature controlled)		Available	
6	Centrifuge		Available	
7	Centrifuge tube		Available	

8	Titration tube		Available	
9	Glass or steel distillation apparatus		Available	
10	Digital pH meter		Available	
11	Tablet hardness tester		Available	
12	Tablet friability tester		Available	
13	Tablet dissolution tester		Available	
14	Hydrometer		Available	
15	Alcohol determination apparatus		Available	
16	Vernier caliper		Available	
17	Hot plate		Available	
18	Heating mantles		Available	
19	Bulk density tester		Available	
20	Rotary shaker		Available	
21	Ultraviolet spectro-photometer (Optional)		Available	
22	Refractometer		Available	
23	Hot air oven (different range of temperature)		Available	
24	Microwave oven		Available	
25	Pyrometer		Available	
26	Pycnometer or Specific gravity bottle		Available	
27	Microscope (Simple)		Available	
28	Microscope with software (Motic or Carlzeis) (Optional)		Available	
29	Compound microscope		Available	
30	Microtome		Available	
31	Microslide cabinet		Available	
32	Dissection box		Available	
33	Aluminum side trays		Available	

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34	Ocular micrometer	Available	
35	Stage micrometer	Available	
36	Camera Lucida Prism type and mirror type (Optional)	Available	
37	Boiling point and Melting point determination apparatus	Available	
38	Volatile oil determination apparatus (Clevenger apparatus)	Available	
39	Viscometer (Ostwald's, Redwood)	Available	
40	Glassware (beakers, funnel, test tubes, measuring cylinders, conical flasks, glass rod, dropper etc)	Available	
41	Pipette	Available	
42	Chemicals and reagents	Available	
43	Electronic balance	Available	
44	Sieve shaker (sieves 10 to 120)	Available	
45	Flask shaker	Available	
46	Slide with cover slip	Available	
47	Pestle and mortar	Available	
48	Litmus paper (blue and red)	Available	
49	Hydrion pH paper	Available	
50	Test tube rack	Available	
51	Spatula, Spoon etc.,	Available	
52	Filter paper	Available	

53	Spirit lamp	Available	
54	Round bottom glass with iron mesh	Available	
55	Platinum wire	Available	
56	Watch glass	Available	
57	Bunsen burner	Available	
58	Refrigerator	Available	
59	Dehumidifier	Available	
60	Liquified Petroleum Gas cylinder with burners	Available	
61	Silica crucible	Available	
62	Moisture determination apparatus	Available	
63	Conductivity meter (Hand operated and bench top model)	Available	
64	Nephelometer and Turbidimeter	Available	
65	Thin layer chromatography apparatus and all accessories	Available	

Note: 1. Department shall provide facilities to demonstrate or practice traditional methods of quality assessments
2. The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide all facilities including equipment, instruments, chemicals or reagents etc., for practical training and demonstrative teaching.

C. Museum Cum Tutorial room

1	Advia Nabatiya (Herbs)	Specimens (Poisonous substances should be preserved safely in locked display shelf cabinet)	Available	
2	Advia Madaniya (Metals and Minerals)		Available	
3	Advia Haywaniya (Animal derivatives)		Available	
4	Kushtajat, Khar, Rubb, Satt etc.	Samples in glass jars	Available	
5	Qara Ambiq	Each one	Available	
6	Nal Bhabka		Available	
7	Patal Jantar		Available	
8	Jal Jantar		Available	
9	Damru Jantar		Available	
10	Tareeqe Lolabi		Available	
11	Tareeqe habli		Available	
12	Hammame mayiya		Available	
13	Jar Alaqi		Available	

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SCHEDULE-XII

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS ETC., FOR MAHIYATUL AMRAZ (PATHOLOGY) PRACTICAL LABORATORY AND MUSEUM CUM TUTORIAL ROOM UNDER THE DEPARTMENT OF MAHIYATUL AMRAZ (PATHOLOGY)

Serial No.	Equipment and Instruments	sixty students intake capacity	One hundred students intake capacity	One hundred Fifty students intake capacity	Two hundred students intake capacity	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
A. Mahiyatul Amraz (Pathology) Practical Laboratory							
1	Binocular microscope with oil immersion	Fifteen	Twenty-five	Forty	Fifty	15	
2	Microscope with oil immersion	Fifteen	Twenty-five	Forty	Fifty	15	
3	Monocular microscope with lens 20	Fifteen	Twenty-five	Forty	Fifty	15	
4	X-ray view box	One	One	Two	Two	1	
5	Sahli's Square tube (Haemoglobinometer)	Thirty	Fifty	Fifty	Fifty	30	
6	Hb pipette	Thirty	Fifty	Seventy-five	One hundred	30	
7	White Blood Cell pipette	Thirty	Fifty	Seventy-five	One hundred	30	

8	Dropper	Thirty	Fifty	Seventy-five	One hundred	30	
9	Red Cell pipette	Thirty	Fifty	Seventy-five	One hundred	30	
10	Improved Neubauer counting chamber	Thirty	Fifty	Seventy-five	One hundred	30	
11	Incubator	One	Two	Three	Four	1	
12	Wintrobe's tube	Thirty	Fifty	Seventy-five	One hundred	30	
13	Pasteur's pipette	Thirty	Fifty	Seventy-five	One hundred	30	
14	Centrifuge Graduated Machine	One	Two	Three	Four	1	
15	Westergren's pipette	Thirty	Fifty	Seventy-five	One hundred	30	
16	Westergren's stand or Wintrobe stand	Thirty	Fifty	Seventy-five	One hundred	30	
17	Urinometer	Thirty	Fifty	Seventy-five	One hundred	30	
18	Autoclave	One	One	One	One	1	
19	Cell counter (haemo-auto analyzer)	One	One	One	One	1	
20	Blood pressure Apparatus	Five	Ten	Fifteen	Twenty	5	
21	Stethoscope	Five	Ten	Fifteen	Twenty	5	
22	Thermometer	Ten	Twenty	Thirty	Forty	10	
23	Thermal Scanner	One	Two	Three	Four	1	
24	Tongue depressor	Five	Ten	Fifteen	Twenty	5	
25	Stop watch	Thirty	Fifty	Seventy-five	One hundred	30	
26	Physical Balance	One	One	Two	Two	1	

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27	Electronic balance	One	One	Two	Two	1	
28	Hot air oven	One	One	Two	Two	1	
29	Bunsen Burner	Thirty	Fifty	Seventy-five	One hundred	30	
30	Refrigerator	One	One	One	One		
31	Sterile vessels or bottle to collect samples	As required				Available	
32	Torch	As required				Available	
33	Measuring Tape	As required				Available	
34	Weighing machine	One	Available	One	One		
35	Tuning Forks	Assorted				Available	
36	Nasal speculum	As required				Available	
37	Laryngoscope	As required				Available	
38	Catheters	As required				Available	
39	Probes	Assorted				Available	
40	Kit (HBs Ag kit, HIV kit, CT-BT kit, Renal profile kit, Lipid profile kit, Blood sugar kit etc.,)	Assorted				Available	
41	Sterile disposable lancet or needle	Assorted				Available	
42	Glass rod	Assorted				Available	
43	Syringe needle destroyer	As required				Available	
44	Cover slip	As required				Available	
45	Cleaned slides	As required				Available	
46	Litmus paper	As required				Available	
47	pH indicator paper strips	As required				Available	
48	Test-tube, Test-tube holder, Test tube rack	Assorted				Available	
49	Funnel	As required				Available	
50	Conical flask	Assorted				Available	
51	Glass Jars with lid of different sizes	Assorted				Available	
52	Capillary Tubes	Assorted				Available	
53	Magnifying lens	As required				Available	
54	Rubber teat	Assorted				Available	
55	Multi sticks	Assorted				Available	
56	Colorimeter	Two	Four	Six	Eight	2	
57	pH meter	Two	Four	Six	Eight	2	
58	Water bath	One	Two	Three	Four	1	
59	Albuminometer	Ten	Twenty	Thirty	Forty	10	
60	Drawing Rack	Two	Three	Four	Five	2	
61	Micro pipette	Assorted				Available	
62	Lancet	Assorted				Available	
63	Forceps	Assorted				Available	
64	Petri dish	Assorted				Available	
65	Transparent Urine container	Assorted				Available	
66	Graduated Cylinder	Assorted				Available	
67	Tourniquet	As required				Available	
68	Revolving Stool for students	As required				Available	
B. Museum cum Tutorial Room							
1	Pathological specimens	Models or films or photographs or visuals or charts or Specimen displaying pathological conditions				Available	
2	Typical X-Ray or Computed Tomography or Magnetic Resonance Imaging					Available	
3	Diagnostic devices or instrument or equipment etc.,					Available	
<p>Note: 1. The listed items in the table are the minimum essential standard requirements. The department shall maintain facilities including equipment, instruments, chemicals/reagents etc., according to student intake capacity for the smooth conduct of practicals listed in the syllabus and for demonstrative teaching.</p> <p>2. Safety measures shall be ensured against microbial contaminations.</p>							

SCHEDULE-XIII

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS ETC., FOR NUTRITION LABORATORY, TAHAFFUZI WA SAMAJI TIB PRACTICAL LABORATORY AND MUSEUM CUM TUTORIAL ROOM AND

TIBBUL QANOON WA ILMUL SAMOOM (FORENSIC MEDICINE AND CLINICAL TOXICOLOGY) PRACTICAL LABORATORY AND MUSEUM CUM TUTORIAL ROOM UNDER THE DEPARTMENT OF TAHAFFUZI WA SAMAJI TIB (PREVENTIVE AND SOCIAL MEDICINE)

Serial No	Equipment and Instruments	sixty students intake capacity	One hundred students intake capacity	One hundred Fifty students intake capacity	Two hundred students intake capacity	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
A. Tahaffuzi Wa Samaji Tib (Preventive and Social Medicine)							
I. Nutrition Laboratory #							
1	Digital weighing Scale	One	One	One	One	1	
2	Kjheldahl system (Digestion unit + distillation unit)	One	One	One	One	1	
3	Digital Muffle Furnaces	One	One	One	One	1	
4	Soxhlet Fat Extraction System	One	One	One	One	1	
5	Abbe's Digital Refractometer	One	One	One	One	1	
6	Flame Photometer	One	One	One	One	1	
7	Hot Air oven	One	One	One	One	1	
8	Refrigerator	One	One	One	One	1	
9	Water bath	Two	Two	Four	Four	2	
10	Grinder	Two	Two	Four	Four	2	
11	Magnetic stirrer	Two	Two	Four	Four	2	
12	Hot Plate	Two	Two	Four	Four	2	
13	Digital pH meter	Two	Two	Four	Four	2	
14	Vacuum filter system	One	One	One	One	1	
15	Sonicator	One	One	One	One	1	
16	Fume hood	One	One	One	One	1	
17	Desiccator	One	One	One	One	1	
18	Vortex mixer	One	One	One	One	1	
19	Viscometer	One	One	One	One	1	
20	Refrigerated centrifuge	One	One	One	One	1	
21	Digital Polarimeter	One	One	One	One	1	
22	Burette	Twenty	Thirty	Forty	Fifty	20	
23	Glass pipette	Twenty	Thirty	Forty	Fifty	20	
24	Micropipette (Different Capacities)	Five each	Five each	Five each	Five each	5	
25	Heating mantle (Different Capacities)	Five each	Five each	Five each	Five each	5	
26	TDS meter	Two	Four	Six	Eight	2	
27	Lactometer	Two	Four	Six	Eight	2	
28	Body Fat Analyser	One	One	One	One	1	
29	Anthropometric measuring tool (set)	One	One	One	One	1	

<p>Note: 1. The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide facilities including equipment, instruments, etc. according to student intake capacity for the smooth conduct of practical's listed in the syllabus and for demonstrative teaching for conducting practical and for demonstrative teaching;</p> <p>2. For conducting practical on culinary medicines as per concept of Unani Tib "Ghiza Dawai" if any, the facilities of either Ilmul Advia or Ilmul Saidla Practical Lab may be used, or department may establish such facilities in the department itself.</p>								
II. Tahaffuzi Wa Samaji Tib Practical laboratory								
1	Horrock's Apparatus	Six	Ten	Fifteen	Twenty	6		
2	TDS meter	Six	Ten	Fifteen	Twenty	6		
3	Turbidity meter	One	Two	Three	Four	1		
4	Psychomotor	Six	Ten	Fifteen	Twenty	6		
5	Air quality monitoring device	Six	Ten	Fifteen	Twenty	6		
6	Male Condom	Six	Ten	Fifteen	Twenty	6		
7	Female Condom	Six	Ten	Fifteen	Twenty	6		
8	Cervical Cap	Six	Ten	Fifteen	Twenty	6		
9	Sponge	Six	Ten	Fifteen	Twenty	6		
10	Cervical rings	Six	Ten	Fifteen	Twenty	6		
11	Oral Contraceptive pill	Six	Ten	Fifteen	Twenty	6		
12	Progesterone only pill	Six	Ten	Fifteen	Twenty	6		
13	Depot Medroxy Progesterone Acetate (DMPA)	Six	Ten	Fifteen	Twenty	6		
14	NET EN	Six	Ten	Fifteen	Twenty	6		
15	Gossypol	Six	Ten	Fifteen	Twenty	6		
16	Yasmine Pills	Six	Ten	Fifteen	Twenty	6		
17	Lippies Loop	Six	Ten	Fifteen	Twenty	6		
18	Copper T	Six	Ten	Fifteen	Twenty	6		
19	Multiload	Six	Ten	Fifteen	Twenty	6		
20	Dichloro-Diphenyl-Trichloroethane (DDT)	Assorted	Assorted	Assorted	Assorted	Available		
21	Malathion	Assorted	Assorted	Assorted	Assorted	Available		
22	Pyrethrum	Assorted	Assorted	Assorted	Assorted	Available		
23	Various specimen of Vaccines	Assorted	Assorted	Assorted	Assorted	Available		
24	Various specimen of Pearls or Millet or Cereals	Assorted	Assorted	Assorted	Assorted	Available		
25	Digital glucometer	Six	Ten	Fifteen	Twenty	6		
26	Chloroscope	Six	Ten	Fifteen	Twenty	6		
27	Autoclave (Single Drum)	Two	Three	Five	Ten	2		
28	Sound level meter	Six	Ten	Fifteen	Twenty	6		
29	Digital Weighting Machine	Six	Ten	Fifteen	Twenty	6		
30	Height scale	Six	Ten	Fifteen	Twenty	6		
31	Shakir's tape	Six	Ten	Fifteen	Twenty	6		
32	Harependen's Skinfold	Six	Ten	Fifteen	Twenty	6		
33	Measuring tape (five feet)	Six	Ten	Fifteen	Twenty	6		
III. Museum cum tutorial room #								
1	Information on Asbab Sitta Zarooriya					Available		
2	Information on public health according to concepts of Unani medicine					Available		
3	Information on Ghiza Dawai					Available		
4	Information on Unani preventive medicines					Available		
5	Information on Riyazat, Dalk etc.					Available		
6	Information on Unani Rejuvenators					Available		
7	Information on Unani diet regimen as per Mizaj and Akhlat					Available		
8	Information on Nutritious and balanced diet					Available		
9	Information on Nuzj o Tanqiya (Bio-cleansing and detoxification measures) in Unani System of Medicine					Available		

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10	Information on National Health Programmes	Available	
11	Information on vector borne diseases	Available	
12	Information on communicable diseases	Available	
13	Information on non-communicable diseases	Available	
14	Information on medicinal plants, uses and importance in preventive and promotive healthcare perspective	Available	
15	Specimens- Unani preventive medicines	Available	
16	Specimens under different tastes and its influences over the body	Available	
17	Specimens- Medicines nourishing body constituents	Available	
18	Specimens- Fumigation drugs Unani	Available	
19	Specimens of Ajza e Ghizai (foods) influencing akhlat e Arba	Available	
20	Specimens- Unani Rejuvenators	Available	
21	Specimens- Aqsam e Ghiza	Available	
22	Models on Tahaffuzi wa Samaji Tib (community medicine)	Available	
23	Charts on Tahaffuzi wa Samaji Tib	Available	
24	Specimen of different types of Mosquitoes	Available	

25	Models/charts/specimen of Mosquitoes' Life cycle	Available	
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B. Tibbul Qanoon wa Ilmul Samoom (Forensic Medicine and Clinical Toxicology)

I. Tibbul Qanoon wa Ilmul Samoom (Forensic Medicine and Clinical Toxicology) Practical Laboratory							
1	Test tubes	As required				Available	
2	Test tube stands and holders	As required				Available	
3	Glass Jar 200ml	As required				Available	
4	Silver Stainless steel spoon	As required				Available	
5	Glass Plate (Small)	Assorted				Available	
6	Spirit lamp	Ten	Fifteen	Twenty	Twenty- five	1	
7	Glass bowl	As required				Available	
8	Plastic Spotter Container	Fifty	Fifty	Hundred	Hundred	50	
9	Stomach Wash Tube	Two	Two	Four	Four	2	
10	Ryle's tube	Two	Two	Four	Four	2	
11	Glass Beaker 200ml	Five	Five	Ten	Ten	5	
12	Specimen Jar (Medium)	Five	Five	Ten	Ten	5	
13	X-ray view box	One	One	Two	Two	1	
14	Monocular Microscope with oil emersion lens Compound microscope	Five	Eight	Twelve	Sixteen	5	
15	Dropper	As required				Available	
16	Physical balance	One	One	One	One	1	
17	Digital weighing scale	One	One	One	One	1	
18	Refrigerator	One	One	One	One	1	
19	Spatula	Assorted				Available	
20	Enamel Trays	Assorted				Available	
21	Almirahs and Racks for Storage	Assorted				Available	
22	Artery Forceps (Big)	Four	Four	Four	Four	4	
23	Conical Flask	As required				Available	
24	Magnet Pieces	As required				Available	
25	Glass rod	As required				Available	

Note: The listed items in the table are minimum essential standard requirements. The department shall maintain and provide facilities including equipment, instruments, chemicals or reagents etc., according to student intake capacity for the smooth conduct of practicals listed in the syllabus and for demonstrative teaching.

II. Museum cum Tutorial Room							
1	Skeleton Model	Male-one, Female-one				Available	

2	Weapons (Pistol, Revolver, Rifle, Short gun, Hammer, Iron rod, Chopper Knife, Sickle, Spear, Sword, Razor and Axe etc.)	Specimens and Models (Poisonous substances or harmful weapons should be preserved safely in locked display shelf cabinet)	Available	
3	Injury types (Models or Photos)		Available	
4	Asphyxial death-models set or manikins		Available	
5	Toxic substances (Specimens: Plants, Metals, Minerals, Animals and its derivatives)		Available	
6	Poisonous snakes' model		Available	
7	Human organs-specimens (Lung, Heart, Kidney, Liver, Uterus etc.)		Available	
8	Magnifying lens to visualize fingerprints		Available	

9	Inkpad for fingerprints	Assorted	Available	
10	X-Ray view box	One	1	
11	Specimen of Unani and Modern Tiryāq	Assorted	Available	

SCHEDULE-XIV

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF MANIKINS OR SIMULATORS OR SPECIAL DEVICES FOR CLINICAL SKILL LABORATORY IN THE COLLEGE

Sl. No (1)	Name of the Manikins or Simulator (2)	60 students intake capacity (3)	100 students intake capacity (4)	150 students intake capacity (5)	200 students intake capacity (6)	Avai lable	Defici ency
A. Moalajat (Medicine) Section							
1	Chest auscultation trainer	One	One	Two	Two	1	
2	Abdominal examination trainer	One	One	Two	Two	1	
3	Injections and IV trainer	Two	Four	Six	Eight	2	
4	IV infusion and calculation of drip rate	One	Two	Three	Four	1	
5	CPR Training	Two	Three	Four	Five	2	
6	Oxygen therapy	One	One	Two	Two	1	
7	Aerosol therapy or nebulization	One	One	Two	Two	1	
B. Ilaj Bit Tadbeer (Regimenal Therapy) Section							
1	Full body manikins-Multipurpose	One	One	Two	Two	1	
2	Enema trainer	Two	Two	Three	Four	2	
C. Jarahat (Surgery) & Ain Uzn Anaf Halaq wa Asnan (Ophthalmology, Ear, Nose, Throat and Dentistry) Section							
1	Ryle's tube insertion	One	One	Two	Two	1	
2	Early management of trauma and trauma life support	One	One	One	One	1	
3	Pleural and Ascitic fluid aspiration	One	One	Two	Two	1	
4	Urinary catheterization – Male	One	Two	Three	Four	1	
5	Urinary catheterization – Female	One	Two	Three	Four	1	
6	Basic Incision and Suture Trainer	Two	Three	Four	Five	2	
7	Basic Wound Care	One	One	Two	Two	1	
8	Basic Bandaging	One	One	Two	Two	1	
9	Incision and Drainage trainer	Two	Three	Four	Five	2	

10	Basic fracture and dislocation management trainer	One	One	Two	Two	1	
11	Prostate examination trainer	One	One	Two	Two	1	
12	Per-rectal examination trainer	One	One	Two	Two	1	
13	Special devices						
	a. Ophthalmoscope	One	Two	Three	Four	1	
	b. Fundoscope	One	Two	Three	Four	1	
	c. Dermo scope	One	Two	Three	Four	1	
	d. ENT examination set	One	Two	Three	Four	1	
D. Qabalat wa Niswan (Obstetrics and Gynaecology) Section							
1	Per speculum and per vaginal examination trainer	One	One	Two	Two	1	
2	Visual inspection of cervix	One	One	Two	Two	1	
3	Intra uterine contraceptive device insertion & removal trainer	One	One	Two	Two	1	
4	Obstetric examination trainer	One	One	Two	Two	1	
5	Episiotomy trainer	Two	Three	Four	Five	2	
6	Normal labour	One	One	One	One	1	
7	Intra uterine insemination (IUI) trainer	One	One	Two	Two	1	
8	Examination of breast lump	One	Two	Three	Four	1	
E. Ilmul Atfal (Paediatrics) Section							
1	Paediatric IV infusion and calculating drip rate	One	One	Two	Three	1	
2	Neonatal resuscitation	One	One	Two	Three	1	
F. Mahiyatul Amراز (Pathology) Section							
1	Nursing trainer for decubitus	One	One	Two	Two	1	
2	Blood sampling	One	One	Two	Two	1	
G. Tibbul Qanoon wa Ilmul Samoom (Forensic Medicine and Clinical Toxicology) under the department of Tahaffuzi wa Samaji Tib (Preventive and Social Medicine) Section							
1	Documentation and certification of trauma	Two	Three	Four	Five	2	
2	Diagnosis and certification of death	Two	Three	Four	Five	2	
3	Legal documentation related to emergency cases	Two	Three	Four	Five	2	
4	Certification of medico-legal cases	Two	Three	Four	Five	2	
5	Establishing communication in medico-legal cases with police, public health authorities, and other concerned departments	Two	Three	Four	Five	2	
Note: The listed items in the table are the minimum essential standard requirements. However, as per the requirement, the college may increase number of manikins / simulators for providing clinical skill to the students.							

SCHEDULE-XV

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS. FOR GHURFATUL WILADA (LABOUR ROOM AND # MATERNITY OT) UNDER THE DEPARTMENT OF QABALAT WA NISWAN (OBSTETRICS AND GYNAECOLOGY) IN THE ATTACHED TEACHING HOSPITAL

Serial No. (1)	Equipment and Instruments (2)	Minimum Required Quantity (3)	Available	Deficiency
1	Operation Theatre Light single dome, Mobile or ceiling	One	1	
2	Suction Machine (Neonatal)	One	1	
3	Oxygen Cylinder and Mask	One	1	
4	Foetal Toco Cardiograph	One	1	
5	Radiant Warmer	One	1	
6	Photo therapy Unit	One	1	

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7	Weighing Machine (Paediatric)	One	1	
8	Patient trolley	Two	2	
9	Anaesthesia trolley	One	1	
10	Infantometer	One	1	
11	Vacuum extractor	One	1	
12	Foetal Doppler	One	1	
13	Low cavity forceps	Two	2	
14	Steriliser	Two	2	
15	Mackintosh rubber sheet	Assorted	Available	

16	Instruments for Labour and Episiotomy. (Scissors, forceps, needle holders etc.)	Assorted	Available	
17	Baby tray	Two	2	
18	Nebuliser	One	1	
19	Foetoscope	Five	5	
20	Double Drum Auto Clave	One	1	
21	Drums	Assorted	Available	
22	Instrumental Trolley	Assorted	Available	
23	Operation Theatre tables and head Up and head Low facility	One	1	
24	Pulse Oximeter	One	1	
25	Resuscitation kit	One	1	
26	Boyle's Apparatus	One	1	
27	Electrocautery	One	1	
28	Medical Termination of Pregnancy (MTP) Suction Machine	One	1	
29	Anaesthesia Kit	One	1	
30	Blunt and Sharp Curettes	Ten	10	
31	Dilators set (Hegar's, Hawkins)	Five	5	
32	Sims's Speculum	Five	5	
33	Cusco's Speculum	Five	5	
34	Anterior Vaginal Wall retractor	Five	5	
35	Uterine sound	Five	5	
36	Volsellum	Five	5	
37	Medical Termination of Pregnancy Suction Curate	Five	5	
38	Retractors abdominal (Doyle's etc.)	Five	5	
39	Sponge holding forceps	Five	5	
40	Green Armitage forceps	Five	5	
41	Uterus holding forceps	Five	5	
42	Kocher's forceps	Six	6	
43	Artery forceps (Long, short, Mosquito) Each	Assorted	Available	
44	Scissors- different sizes	Assorted	Available	
45	Forceps obstetrics	Five	5	
46	Endotracheal tubes	Five	5	
47	Cord Cutting appliances	Five	5	
48	Intra-Uterine Contraceptive Device removing hook	Five	5	
49	Bladder Sound	Five	5	
50	B.P. apparatus	Two	2	
51	Human Immunodeficiency Virus kit for emergency patients	Assorted	Available	
52	Plain and Hole towels	Assorted	Available	
53	Towel Clips	Assorted	Available	
54	Suturing Material (Different Numbers)	Assorted	Available	
55	Needles	Assorted	Available	
56	Needles Holders	Assorted	Available	
57	Wheelchair	One	1	

58	Formalin Chamber	One	1	
59	Fogging Machine	One	1	
60	Allis Forceps (9", 12")	Four each	Available	
61	Dressing Drum	Three	3	

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Note: 1. The listed items in the table are minimum essential standard requirements. The department shall maintain and provide facilities including equipment, instruments, chemicals, medicines etc., for conducting labour, and for providing clinical training. 2. Aseptic procedures/practices shall be followed in Labour room

SCHEDULE-XVI

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS FOR MASRAH AMALIYA (OPERATION THEATRE WITH ATTACHED MINOR OPERATION THEATRE UNDER THE DEPARTMENT OF JARAHAT (SURGERY) IN THE ATTACHED TEACHING HOSPITAL

Serial No. (1)	Equipment and Instruments (2)	Required Quantity (3)	Available	Deficiency
1	Operation Theatre light Double Dome (Shadow less ceiling fitted)	One	Available	
2	Examination Light and Single Dome Mobile Operation Theatre light	One each	Available	
3	Needle holding Forceps (big- medium-small)	four each	Available	
4	Dressing drums of Assorted size	two each	Available	
5	Drum stand	two each	Available	
6	Intravenous infusion Stand	two	Available	
7	Cheates Forceps	Four	Available	
8	Mosquito Forceps	Twenty	Available	
9	Scissors straight (Tailor)	Four	Available	
10	Scissors curved of different sizes	Five each	Available	
11	Stitch removal scissors	Five each	Available	
12	Tissue Dissecting forceps (Tooth and Non-Tooth)	Four each	Available	
13	Sinus Forceps	Four	Available	
14	Probes - Assorted size	Five each	Available	
15	Pointed scissors	Four	Available	
16	Abdominal Self Retaining Retractors	Five	Available	
17	Laparoscope with instruments	One set	Available	
18	Bob Kock's Forceps	Five	Available	
19	Kocher's Forceps	Five	Available	
20	Metallic Urethral Dilators (clutton and lister Bougie)	two each	Available	
21	Sponge holding forceps	Four	Available	
22	Right Angle cholecystectomy Forceps (Assorted)	Two each	Available	
23	Stone holding forceps (Urethral and common bile duct stone holding forceps)	Two each	Available	
24	Allis Forceps (6", 9", 12")	Six each	Available	
25	Electro cautery (400 watt)	One	1	
26	Artery Forceps Curved (6", 9", 12")	Six each	Available	
27	Artery Forceps Straight (6", 9", 12")	Six each	Available	
28	Formalin Chamber (Small and Large)	Two each	Available	
29	Sigmoidoscope Rigid or flexible (Fiber-optic)	One	1	
30	Barron's Banding Set	Two	2	
31	Laryngoscope Pediatric and Adult	One each	Available	
32	Boyles Apparatus or Anesthesia workstation	One	1	

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33	Multi-parameter Monitor (7 parameters)	One	1	
34	Ambu Bag (Silicon)	Two	2	
35	Suction machine (Electrical or Manual)	One	1	
36	Skin grafting knife with handle	Assorted	Available	
37	Surgical blades of different size	Assorted	Available	
38	Retractor (Single Hook, Czerney's, Langenbeck, Devers, Eyelid)	Two each	Available	
39	Bone cutter	Two	2	
40	Gigli Saw	Two	2	
41	Scoop (Bone and Muscle)	One each	Available	
42	Periosteum elevator	Two	2	
43	Maggles Forceps	Assorted	Available	
44	Double Drum Horizontal Autoclave fitted with large Drum	One	1	
45	Nitrous Oxide Cylinder	Two	2	
46	Operation Table or Hydraulic Operation Table or Motorized Operation Table	Two	2	
47	Instrument Trolley	Two	2	
48	Proctoscope with or without illumination or Digital Proctoscope	Two	2	
49	Rib Shear	One	1	
50	Stretcher with trolley	Two	2	
51	Myo's trolley	One	1	
52	Emergency power back up facility (online UPS)	As required	Available	
53	Emergency light	Four	4	
54	Bone Nebular	One	1	
55	BP Apparatus with stand	Two	2	
56	Fogging Machine	One	1	
57	Refrigerator	One	1	
58	X-ray View Box (double)	Two	2	
59	Surgeon Hydraulic Stool	Two	2	
60	Fistula Curette and fistula Director	One each	Available	
61	Rubber catheters of Assorted size	As required	Available	
62	Corrugated rubber drain	Assorted	Available	
63	Suturing Needle (straight or curved) of Assorted size	Assorted	Available	
64	Surgical Thread	Assorted	Available	
65	Wheelchair	Assorted	Available	
66	Needle holder (4", 6", 9")	Two each	Available	
67	Weighing machine	One	1	
68	Electric sterilizers	Two	2	
69	BP Handle of different size	Two each	Available	
70	Nebulizer	Two	2	
71	SS containers (Dressing Drum) Assorted Size	As required	Available	
72	Surgical blades	Assorted	Available	
73	Kidney trays	Assorted	Available	
74	Anesthesia trolley	One	1	
75	Instrument Cabinet	Two	2	

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Note: 1. The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide facilities including equipment, instruments, chemicals, medicines etc., for conducting surgical procedures, and for providing clinical teaching and training as per syllabus. 2. Jarahat procedure room (Minor Operation Theatre) for providing Unani surgical and para-surgical treatments and procedures.		
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SCHEDULE-XVII

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS UNDER THE DEPARTMENT OF AIN UZN ANAF HALAQ WA ASNAN (OPHTHALMOLOGY, EAR, NOSE, THROAT AND DENTISTRY) FOR MASRAH AMALIYA (OPERATION THEATRE) IN THE ATTACHED TEACHING HOSPITAL

Serial No. (1)	Equipment and Instruments (2)	Required Quantity (3)	Available	Deficiency
I. Ain (Eye): Ophthalmic Equipment or Instruments for Operative Surgery				
1	Ophthalmic Operation Table with head rest (hydraulic)	One	1	
2	Sterilizing box or case with matts	Assorted	Available	
3	Lens insertion Forceps	Assorted	Available	
4	Keratome	Assorted	Available	
5	Desmarres lid retractors	Assorted	Available	
6	Cat-paw lacrimal retractor	Assorted	Available	
7	Mueller lacrimal sac retractor	Assorted	Available	
8	Dastoor iris retractor	Assorted	Available	
9	Meyrhoefer Chalazion currete	Assorted	Available	
10	Sinsky lens manipulating hook	Assorted	Available	
11	Intraocular Lens Manipulator	Assorted	Available	
12	Foreign body spud	Assorted	Available	
13	Lewis lens loop (vectis)	Assorted	Available	
14	Cystotome and spoon	Assorted	Available	
15	Mule Evisceration spoon	Assorted	Available	
16	Iris repository (double-ended)	Assorted	Available	
17	Jameson muscle hook	Assorted	Available	
18	Wills cautery with copper ball-point	Assorted	Available	
19	Langs lacrimal sac dissector	Assorted	Available	
20	Kelly Glaucoma punch	Assorted	Available	
21	Elevator (double ended)	Assorted	Available	
22	Nasal speculum adult or child	Assorted	Available	
23	Wilder punctum Dilator	Assorted	Available	
24	Bowman lacrimal probes	Assorted	Available	
25	Hartman mosquito forceps	Assorted	Available	
26	Colibri forceps 1*2 teeth	Assorted	Available	

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27	Mcperson corneal forceps with tying platform	Assorted	Available	
28	Dressing forceps, serrated	Assorted	Available	
29	Moorfield conjunctival forceps	Assorted	Available	
30	Fixation forceps	Assorted	Available	
31	Beer cilea (epilation) forceps	Assorted	Available	
32	Arruga capsular forceps	Assorted	Available	
33	Snellen Entropion clamp	Assorted	Available	
34	Chalazion clamps	Assorted	Available	
35	Vannas straight scissors	Assorted	Available	
36	Barraquer needle holder	Assorted	Available	
37	Air injection cannula	Assorted	Available	
38	Healon aspirating cannula	Assorted	Available	
39	AC washout cannula	Assorted	Available	
40	Lacrimal cannula	Assorted	Available	
41	Hydrodialysis cannula	Assorted	Available	
42	J-loop cannula (Right or Left With silicon tubing)	Assorted	Available	
43	Simcok direct Irrigating and Aspiration cannula with silicon tubing	Assorted	Available	
44	Irrigating aspirating handle	Assorted	Available	
45	Lens dialer	Assorted	Available	
46	Superior Rectus forceps	Assorted	Available	
47	Eye wash glasses	Assorted	Available	
48	Swimming Goggles	Assorted	Available	
49	Ophthalmic Chair	One	1	
II. ENT-Surgical or Operative Procedural Instruments				
1	Aural Syringe	Assorted	Available	
2	Jobson's Aural Probe	Assorted	Available	
3	Eustachian Catheter	Assorted	Available	
4	Mastoid Retractor	Two	2	
5	Mastoid Gouge	Assorted	Available	
6	Mallet	Assorted	Available	
7	Nasal Foreign Body hook	Four	4	
8	Nasal packing forceps	Assorted	Available	
9	Nasal Snare	Assorted	Available	
10	Bayonet Shaped gouge	Assorted	Available	
11	Walsham forceps	Assorted	Available	
12	Laryngeal forceps	Assorted	Available	
13	Tongue plate with throat suction	Assorted	Available	
14	Tonsil holding forceps	Assorted	Available	
15	Tonsillar suction	Assorted	Available	
16	Adenoid curette with cage	Assorted	Available	
17	Peritonsillar abcess draining forceps	Assorted	Available	
18	Fuller's Tracheostomy Tube	Assorted	Available	
19	Cheatel's Forceps	Assorted	Available	
20	Nasal endoscope	One	1	

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21	Ear, Nose and throat Set (Manual and digital)	One each	Available	
22	Other consumable articles like gloves, syringes, bandages, sutras, etc.	Assorted	Available	
Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide facilities including equipment, instruments, chemicals, medicines etc., for conducting surgical procedures, and for providing clinical teaching and training as per syllabus.				

SCHEDULE-XVIII

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS FOR ILAJ BIT TADABEER PROCEDURE SECTION AND PHYSIOTHERAPY UNIT UNDER THE DEPARTMENT OF ILAJ BIT TADABEER IN THE ATTACHED TEACHING HOSPITAL.

Serial No.	Equipment/Instrument	Student Intake capacity				Available	Deficiency
		Sixty students intake capacity (3)	One hundred students intake capacity (4)	One hundred fifty students intake capacity (5)	Two hundred students intake capacity (6)		
A. Huqna (Enema), Abzan (Sitz Bath) and Qai (Emesis) Room							
1	Procedure table (Male+Female)	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
2	Footstep stool	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
3	Ishal chair for elders	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
4	Medicines for Huqna (Enema), Abzan (sitz bath) and Qai (Emesis)	As required				Available	
5	Medicine trolley	As required				Available	
6	Enema kit	As required				Available	
7	Enema stand	As required				Available	
8	Intravenous fluids	As required				Available	
9	Intravenous fluid stand	2	2	4	4	2	
10	Working table	As required				Available	
11	Vessels and bowls	As required				Available	
12	Abzan and Qai Tub	As required				Available	
13	Blood Pressure apparatus	2	2	2	2	2	
14	Stethoscope	2	2	2	2	2	
15	Towel	As required				Available	
16	Waterproof rubber sheet (Macantosh)	As required				Available	
17	Waste bin	Assorted				Available	
18	Cupboard	As required				Available	
B. Nushooq, Suoot and Shumoom.							
19	Procedure table	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
20	Nasal applicator	As required				Available	
21	Medicines for therapy	As required				Available	
22	Cupboards	As required				Available	
23	Vessels and bowls	As required				Available	
24	Medicine trolley	As required				Available	
25	Waterproof rubber sheet (Macantosh)_	As required				Available	
26	Waste bin	Assorted				Available	
C. Hijama Therapy Section							

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27	Hijama bed and chair (Male+Female)	4 (2+2)	6 (3+3)	8 (4+4)	10 (5+5)	4	
28	Footstep stool	4 (2+2)	6 (3+3)	8 (4+4)	10 (5+5)	4	
29	Hijama Chair	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
30	Procedure stool	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
31	Medicine trolley	As required				Available	
32	Hijama cups (Disposable)	As required				Available	
33	Cupboard	As required				Available	
34	Hijama set	4 (2+2)	6 (3+3)	8 (4+4)	10 (5+5)	4	
35	Lancet or Scalpel	As required				Available	
36	Vessels and bowls	As required				Available	
37	Instrument tray	As required				Available	
38	Kidney tray	As required				Available	
39	Betadine lotion	As required				Available	
40	BP apparatus	2	2	2	2	2	
41	Stethoscope	2	2	2	2	2	
42	Towel	As required				Available	
43	Waterproof rubber sheet	As required				Available	
44	Normal saline	As required				Available	
45	Sterile cotton	As required				Available	
46	Sterile Gauze swab	As required				Available	
47	Cotton	As required				Available	
48	Adhesive tape	As required				Available	
49	Disposable Personal Protective Equipment Kits or Linen Surgical dress	As required				Available	
50	Medicines for procedures (Applicable Roghaniyat or Safoof Zaj Abiyaz)	As required				Available	
51	Surgical Gloves	As required				Available	
52	Bandage	As required				Available	
53	Waste bin	Assorted				Available	
D. Hammam Section							
54	Steam bath chamber (Lying type)	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
55	Footstep stool	2	4	6	8	2	
56	Stem bath Chamber (Sitting type)	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
57	Steam generator or boiler	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
58	Medicine trolley	As required				Available	
59	Working table	As required				Available	
60	Cupboard	As required				Available	
61	Gas or Induction stove	As required				Available	
62	Cooker	As required				Available	
63	Towel	As required				Available	
64	Medicines and raw drugs for procedures	As required				Available	
65	Waste bin	Assorted				Available	
E. Irsale Alaq (Leech Therapy) and Fasd (Bloodletting) Section							
66	Aquarium for storage of Leeches	2	2	2	2	2	
67	Roller Bandage (four inch)	As required				Available	
68	Lukewarm water	As required				Available	
69	Gauze Pad	As required				Available	
70	Blood Pressure apparatus	1	1	1	1	1	
71	Stethoscope	1	1	1	1	1	

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72	Bandage cutting scissor	2	2	2	2	2	
73	Kidney tray	As required				Available	
74	Hole towel	As required				Available	
75	Chob Zard Powder	As required				Available	
76	Sang Jarahat Powder	As required				Available	
77	Zaj Abiyaz Powder	As required				Available	
78	Gile Armani Powder	As required				Available	
79	Micro pore plaster	As required				Available	
80	Surgical Gloves	As required				Available	
81	23-gauge needle	As required				Available	
82	18-gauge needle	As required				Available	
83	Transparent Jars	As required				Available	
84	Spirit	As required				Available	
85	Povidone iodine solution	As required				Available	
86	Tourniquet	As required				Available	
87	Surgical Blade or Scalpel or Scarificator	As required				Available	
88	Sponge holding forceps	As required				Available	
89	Medicine trolley	As required				Available	
90	Mackintosh Sheet	As required				Available	
91	Fasd Table or Irsale Alaq Bed	2 (1+1)	4 (2+2)	6 (3+3)	8 (4+4)	2	
92	Waste bin	Assorted				Available	
F. Dalk and Takmeed Bukhari Section							
93	Procedure table	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
94	Footstep stool	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
95	Procedure stool	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
96	Steam generator set or Pressure Cooker with pipe	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
97	Procedure Apron	As required				Available	
98	Cloth to make bundle	As required				Available	
99	Towel	As required				Available	
100	Scissors	As required				Available	
101	Knife	As required				Available	
102	Surgical gloves	As required				Available	
103	Tray	As required				Available	
104	Gas or Induction stove	As required				Available	
105	Medicines and Raw drugs for Dalk or Takmeed Bukhari	As required				Available	
106	Medicine preparation table	As required				Available	
107	Medicine trolley	As required				Available	
108	Cupboards	As required				Available	
109	Waste bin	Assorted				Available	
G. Nutool Section							
110	Procedure Set (Including Table and Stand)	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
111	Chair	2 (1+1)	2 (1+1)	4 (2+2)	4 (2+2)	2	
112	Stool	2	4	6	8	2	
113	Medicine trolley	As required				Available	
114	Cupboard	As required				Available	
115	Enamel Tray	As required				Available	
116	Containers	As required				Available	

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117	Towel	As required	Available	
118	Cloth	As required	Available	
119	Scissors	As required	Available	
120	Required medicines	As required	Available	
121	Waste bin	Assorted	Available	
H. # Physiotherapy Unit				
122	Treatment table -wooden plinths	As required	Available	
123	Treatment table-high-low adjustable	As required	Available	
124	Mat table	As required	Available	
125	Treatment room cabinets and chairs	As required	Available	
126	Large mirror for visual feed back	As required	Available	
127	Adjustable height exercise steps	As required	Available	
128	Linens including towels	As required	Available	
129	Step stools	As required	Available	
130	Therapist stools on wheels	As required	Available	
131	Variety of bolsters, wedges, supports	As required	Available	
132	Mobilization of belt and devices	As required	Available	
133	Gait belt	As required	Available	
134	Various assistive devices	As required	Available	
135	Tapping supplies	As required	Available	
136	Orthotics and splining materials	As required	Available	
137	Office equipment	As required	Available	
138	Devices for test and measurements	As required	Available	
139	First Aid	As required	Available	
140	Basic modalities	As required	Available	
141	Fitness and exercise equipment	As required	Available	
142	Emergency Kit (Oxygen cylinder with trolley and regulator, Face Mask, Ambu Bag)	One	1	
143	Transcutaneous Electrical Nerve Stimulation (TENS)	One	1	
144	Interferential Therapy Machine (IFT)	One	1	
145	Electrical stimulator	One	1	
146	Quadriceps table	One	1	
147	Ankle exerciser	As required	Available	
148	Finger exerciser	As required	Available	
149	Ultrasound machine	One	1	
150	Infrared lamp	Two	2	
151	Shoulder pulley	As required	Available	
152	Shoulder wheel	As required	Available	
153	Parallel bar	One	1	
154	Staircase trainer	One	1	
155	Walking aids	As required	Available	
156	Activities Daily Living Kit	As required	Available	
157	Wax bath	One	1	
158	Swiss ball	As required	Available	
159	Thera band	As required	Available	
160	Peg boards	As required	Available	
161	Wobble boards	As required	Available	
162	Dumbbells of different weights	Assorted	Available	

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163	Static cycle	One	1	
164	Wheelchair	One	1	
165	Weight cuffs of different weights	Assorted	Available	

SCHEDULE-XIX

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS ETC., AMRAZE JILD WA TAZEENIYAT OUT-PATIENT DEPARTMENT WITH ATTACHED PROCEDURE ROOM UNDER THE DEPARTMENT OF AMRAZE JILD WA TAZEENIYAT IN THE ATTACHED TEACHING HOSPITAL

Serial No.	Equipment and Instruments	Sixty students intake capacity	One hundred students intake capacity	One hundred fifty students intake capacity	Two hundred students intake capacity	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
1	Wood's Lamp	One	One	Two	Two	1	
2	Spot Narrow band ultraviolet B (NBUVB) therapy or comb	One	One	Two	Two	1	
3	Wart Remover	One	One	Two	Two	1	
4	Byfricator (Electrodessicator)	One	One	Two	Two	1	
5	Dermatoscope (Digital Microscope)	One	One	Two	Two	1	
6	Derma Chair	One	One	Two	Two	1	
7	Derma Stool	One	One	Two	Two	1	
8	Magnifying Glasses	Two	Two	Four	Four	2	
9	Instrument Trolley	One	One	Two	Two	1	
10	Autoclave	One	One	Two	Two	1	
11	Scalpel Handle	One	One	Two	Two	1	
12	BP apparatus	One	One	Two	Two	1	
13	Stethoscope	One	One	Two	Two	1	
14	Bandage or Cotton or Gauze or Betadine or Sprit	As per requirement				Available	
15	Torch	As per requirement				Available	
16	Towel	As per requirement				Available	
17	Waterproof rubber sheet	As per requirement				Available	
18	Normal Saline	As per requirement				Available	
Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide all facilities including equipment, instruments for Amraze Jild Wa Tazeeniyat and for providing clinical teaching and training.							

SCHEDULE-XX

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS ETC., FOR YOGA AND RIYAZAT UNDER THE DEPARTMENT OF TAHAFUZI WA SAMAJI TIB IN THE ATTACHED TEACHING HOSPITAL

Serial No.	Equipment and Instruments	Sixty stud ents intak e capa city	One hundr ed stude nts intak e capac ity	One hundred fifty stud ents intak e capa city	Two hundred stud ents intak e capa city	Available	Deficiency
(1)	(2)	(3)	(4)	(5)	(6)		
1	Yoga mat	Five	Ten	Fifteen	Twenty	5	
2	Yoga folded blanket	Five	Ten	Fifteen	Twenty	5	
3	Yoga foam rollers	As required				Available	
4	Yoga exercise ball	As required				Available	
5	Yoga wheel	As required				Available	
6	Yoga wedge	As required				Available	
7	Yoga wooden block	As required				Available	
8	Yoga bolster	As required				Available	
9	Yoga sandbag	As required				Available	
10	Yoga belt or straps	As required				Available	
11	Yoga -Resistance band	As required				Available	
12	Meditation cushion	As required				Available	
13	Meditation chair or Backless chair	As required				Available	
14	Yoga anti-gravity wall rope full set	As required				Available	
15	Yoga head stand bench	One	One	Two	Two	1	
Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide all facilities including equipment, instruments for Yoga and Riyazat and for providing clinical teaching and training.							

SCHEDULE-XXI

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS FOR CLINICAL LABORATORY UNDER THE DEPARTMENT OF MAHIYATUL AMRAZ (PATHOLOGY) IN THE TEACHING HOSPITAL

Serial No.	Equipment and Instruments	Available	Deficiency
Haematology or Pathology Section			
1	Fully or semi-automated haematology analyser	Available	
2	Binocular microscope	Available	
3	Colorimeter	Available	
4	Other necessary equipment/instruments	Available	
Biochemistry Section			
1	Fully or semi-automated biochemistry analyser	Available	
2	Electrolyte analyser	Available	
3	Centrifuge	Available	
4	Hot air oven	Available	
5	Chemiluminescence or Enzyme-Linked Immunosorbent Assay (ELIZA)	Available	
6	Glycated Haemoglobin (HbA1C) analyser or Card based	Available	
7	Other necessary equipment or instruments	Available	
Microbiology Section			
1	Binocular microscope	Available	
2	Incubator	Available	
3	Autoclave (vertical)	Available	
4	Hot air oven	Available	
5	Automated blood culture system	Available	
6	Bio-safety cabinet	Available	
7	Other necessary equipment and instruments	Available	
<p>Note: 1. The listed items in the table are minimum essential standard requirements. However, the department shall maintain all facilities including equipment, instruments, medicines etc., for conducting routine haematological, pathological, biochemical and microbiological diagnostic tests.</p> <p>2. The requirement of equipment and instruments mentioned for clinical laboratory in Schedule-XXI is applicable only for the new colleges to be established after notification of this regulation; All existing colleges (before notification) are permitted to continue with the existing facilities in clinical laboratories; however, they are allowed to upgrade the facilities as per their requirements in the future.</p> <p>3. For higher diagnostic tests, the college may have a tie-up with the nearest National Accreditation Board for Testing and Calibration Laboratories -accredited diagnostic laboratory.</p>			

SCHEDULE-XXII

**MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF RADIOLOGY SECTION/IMAGING SECTION UNDER THE
DEPARTMENT OF MAHIYATUL AMRAZ (PATHOLOGY) IN THE TEACHING HOSPITAL**

Serial No. (1)	Equipment or Instrument (2)	Requirements (3)	Available	Deficiency
1	X-Ray unit with machine and accessories	Essential	Available	
2	Ultrasound scan		Available	
3	Electrocardiogram Machine		Available	
4	Digital X-ray	Desirable	Available	
<p>Note: For higher imaging studies such as Computed tomography, Magnetic Resonance Imaging, Positron Emission Tomography, Doppler etc., college may have tie-up with nearest National Accreditation Board for Testing and Calibration Laboratories accredited diagnostic center.</p>				

SCHEDULE-XXIII

MINIMUM ESSENTIAL STANDARDS: REQUIREMENTS OF EQUIPMENT AND INSTRUMENTS FOR OUT-PATIENT DEPARTMENTS IN THE TEACHING HOSPITAL

Serial No. (1)	Out-Patient Department (2)	Equipment and Instrument (3)	Required Quantity (4)	Available	Deficiency
1	Moalajat (Medicine)	Stethoscope	Four	4	
		Blood Pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Tunning forks	Assorted	Available	
		Face Mask	As required	Available	
Surgical gloves	As required	Available			
2	Ilaj bit Tadabeer (Regimen al Therapy)	Stethoscope	Four	4	
		Blood Pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Tunning forks	Assorted	Available	
		Surgical gloves	Assorted	Available	
Face Mask	As required	Available			
Instruments and equipment for the therapy section (male and female) attached to Out-Patient Department to perform Ilaj bit Tadabeer Out-Patient Department based procedures	As required	Available			
3	Jarahat (Surgery)	Stethoscope	Four	4	
		Blood Pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Proctoscope (Assorted sizes)	As required	Available	

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		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Tuning forks	Assorted	Available	
		Surgical gloves	Assorted	Available	
		Cheetele's forceps	Four	4	
		Face Mask	As required	Available	
		Instruments and equipment for the minor surgical therapy section (male and female) attached to Out- Patient Department to perform Out- Patient Department based surgical procedures.	Assorted	Available	
4	Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	Stethoscope	Four	4	
		Blood Pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Surgical gloves	Assorted	Available	
		Face Mask	As required	Available	
		Magnifying Lens	One	1	
5	Ain Uzn Anaf Halaq wa Asnan (Ophthalmology , Ear, Nose and Throat and Dentistry)	Stethoscope	Four	4	
		Blood pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Autorefractometer (refractometry or optometry)	One	1	
		Ophthalmoscope or Fundoscope	One	1	
		Slit eye lamp	One	1	
		Otoscope	One	1	
		Audiometry	One	1	
		Bulls lamp	One	1	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Tuning fork	Assorted	Available	
		Surgical gloves	Assorted	Available	

		Face mask	Assorted	Available	
		Cheatle's forceps	Four	4	
		Instruments and equipment for the minor surgical therapy section (male and female) attached to Out- Patient Department to perform Out- Patient Department based procedures under Ain Uzn Anaf Halaq wa Asnan	Assorted	Available	
6	Qabalat wa Niswan (Obstetrics and Gynaecology)	Stethoscope	Four	4	
		Blood pressure Apparatus	Two	2	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Gynaecological Examination table	One	1	
		Lamp stand	One	1	
		Surgical gloves	Assorted	Available	
		Sim's speculum	Two	2	
		Face mask	Assorted	Available	
		Cusco's speculum	Two	2	
7	Ilmul Atfal (Paediatrics)	Stethoscope	Four	4	
		Paediatric stethoscope	Four	4	
		Blood pressure Apparatus with different cuff	Two	2	
		Blood pressure Apparatus with Paediatric cuff	Four	4	
		Knee Hammer	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Ten	10	
		Measuring tape	Two	2	
		Height measuring stand	One	1	
		Examination table	One	1	
		Neonatal weighing scale	One	1	
		Paediatric weighing scale	One	1	
		Infantometer	One	1	
		Scale (Baby weighing)	One	1	
		Face mask	Assorted	Available	
		Surgical gloves	Assorted	Available	
8	Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)	Stethoscope	Two	2	
		Blood pressure Apparatus	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	

		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Three	3	
		Measuring tape	One	1	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Surgical gloves	As required	Available	
		Body temperament assessment chart	One	1	
		Body Mass Index machine	One	1	
		Face mask	Assorted	Available	
		Information, Education and Communication Material	As required	Available	
		TST (Tahaffuzi wa Samaji Tib) Health card	As required	Available	
9	Tibbul Qanoon wa Ilmul Samoom (Forensic Medicine and Clinical Toxicology) under the department of Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)	Stethoscope	Two	2	
		Blood pressure Apparatus	Two	2	
		Torch	One	1	
		X-Ray viewing box	One	1	
		Thermometer	Two	2	
		Thermal Scanner	One	1	
		Pulse oximeter	One	1	
		Tongue depressor	Three	3	
		Measuring tape	One	1	
		Height measuring stand	One	1	
		Weighing machine	One	1	
		Examination table	One	1	
		Surgical gloves	As required	Available	
		Body temperament assessment chart	One	1	
		Body Mass Index machine	One	1	
		Face mask	Assorted	Available	
		Information, Education and Communication Material	As required	Available	
10	Isabat (Casualty)	Equipment, Instrument and Furniture	As required	Available	
		Motorised bed 4 section with mattress	As per requirement (see - regulation 14 sub-(3) clause(xi) (C)	Available	
		Footstep	As per number of beds	Available	
		Intravenous (IV) stand with stainless steel rod and castor base	As per number of beds	Available	
		Wheelchair	As required	Available	
		Patient transfer stretcher trolley	As required	Available	
		Drug trolley	As required	Available	
		Portable X-Ray Machine	One	1	
		Suturing set	As required	Available	
		Multi para monitor	One	1	
		Suction Machine	One	1	
		Suction catheter	As required	Available	

		Resuscitation kit	As required	Available	
		Oxygen Unit with Nasal Hood/Mask	As required	Available	
		Laryngoscope	One	1	
		Endotracheal tube	As required	Available	
		Ambu bag with different mask	As required	Available	
		Defibrillator	One	1	
		Electrocardiogram and Monitor	Two	2	
		Blood pressure Apparatus	Two	2	
		Neonatal/Paediatric Blood pressure cuff	One	1	
		Stethoscope	Two	2	
		Torch	Two	2	
		Examination Table	One	1	
		ICU-Thermometer	Two	2	
		Neonatal Intensive Care Unit Thermometer	Two	2	
		Tongue depressor	Two	2	
		Weight and height measuring stand	One	1	
		Measuring tape	Two	2	
		Knee hammer	Two	2	
		Wheelchair	Two	2	
		Diagnostic Electrocardiogram Machine Twelve Channel	One	1	
		Stretcher cum Trolley	Two	2	
		Intravenous Stand	Two	2	
		Emergency Drugs	As required	Available	
11	*Screening Out-Patient Department	Stethoscope	Three	3	
		Blood Pressure Apparatus	Three	3	
		Clinical thermometer	Three	3	
		Thermal scanner	Three	3	
		Height measurement stand	Two	2	
		Weighing machine	Two	2	
		Mizaj assessment chart	As required	Available	
Note: The listed items in the table are minimum essential standard requirements. However, the department shall maintain and provide facilities including equipment, instruments, medicines etc., for conducting Out-Patient Department clinical activities and for providing clinical teaching and training.					

SCHEDULE-I

MINIMUM ESSENTIAL STANDARDS: REQUIREMENT OF AN ATTACHED TEACHING HOSPITAL OF AN
UNANI MEDICAL COLLEGE

Serial No.	Particulars	Constructed or Built up area (in Square Meter)				Available	Deficiency
		Sixty students intake capacity	One Hundred students intake capacity	One hundred fifty students intake capacity	Two hundred students intake capacity		
(1)	(2)	(3)	(4)	(5)	(6)		
Reception and Registration Zone							
Entrance lobby and circulation area includes							
1	Reception and Enquiry counter or with Public Relation Officers	100	150	200	250	120	
2	Registration and Billing counter						
3	Waiting area						
4	Medical record room and space for medical record technician						
Out-Patient Zone		440	650	860	1070	460	
5	Screening Out-Patient Department	15	20	30	40	30	
6	Moalajat Out-Patient Department	25	40	50	60	30	
7	Ilaj bit Tadabeer Out-Patient Department (with attached minor therapy or procedure room)	40	50	60	70	30	
8	Amraze Jild wa Tazeeniyat Out-Patient Department (with attached minor therapy or procedure room)	25	40	50	60	30	
9	Ilmul Atfal Out-Patient Department	25	40	50	60	25	
10	Jarahat Out-patient Department (with attached procedure room for surgical and para- surgical procedures)	40	50	60	70	30	
11	Ain Uzn Anaf Halaq wa Asnan Out-Patient Department (with attached procedure room for surgical and para- surgical procedures)	40	50	60	70	30	
12	Qabalat wa Niswan Out-Patient Department (with attached minor procedure room)	40	50	60	70	30	
13	Tahaffuzi wa Samaji Tib Out-Patient Department	25	40	50	60	25	
14	Isabat (Emergency or Casualty)	25	25	30	35	30	
15	Drug store or Dispensary or Pharmacy	40	50	60	80	40	
16	Online consultation facility	100	195	300	395	120	
17	Out-Patient Department zone in-charge office						
18	Waiting lounge for patients with drinking water facility, and area for breast feeding.						
19	Area for wheelchair and stretcher, janitor room						
20	Separate male and female toilets for patients, staff and students or interns						
21	Store						

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22	Speciality Out-patient Departments	twenty square meters per speciality Out-Patient Department (Space mentioned for speciality Out-Patient Department is over and above the minimum requirement, hence will not be counted under minimum required area)					
Diagnostic Zone							
23	Clinical laboratory	150	175	200	225	185	
24	Radiology or Imaging section						
25	Other Diagnostics such as Electrocardiogram etc.,						
26	Waiting area for patients						
27	Diagnostic zone in-charge office						
28	Counter for issuing reports						
29	Toilets separately for male and female						
In-Patient Zone		1350	2150	2950	3750		
A. Medical In-Patient Section							
30	Area required to accommodate allotted In-Patient department beds under Moalajat, Ilaj bit Tadabeer, Amraze Jild wa Tazeeniyat, Ilmul Atfal	750	1250	1750	2250	575	
31	Ward procedure rooms (four) with kitchen						
32	Nursing counter and store						
33	Area for seating interns						
34	Room for night duty doctors or consultants						
35	Room for night duty nursing staff						
36	Room for night duty interns						
37	Clinical classrooms (two)						
38	Circulation area and corridors						
39	Toilets attached to wards (separately for male, female and physically challenged)						
40	Area for potable water facility, trolleys or stretchers, clean and dirty utility, housekeeping material or janitor room, biomedical waste management facility, laundry etc.,						
B. Surgical In-Patient Section							
41	Area required to accommodate allotted In-Patient department beds under Jarahat, Ain Uzn Anaf Halaq wa Asnan, and Qabalat wa Niswan	600	900	1200	1500	375	
42	Ward procedure rooms (three) with kitchen						
43	Nursing counter and store						
44	Area for seating interns						
45	Room for night duty doctors or consultants						
46	Room for night duty nursing staff						
47	Room for night duty interns						
48	Clinical classrooms (two)						
49	Circulation area and corridors						
50	Toilets attached to wards (separately for male, female and physically challenged)						
51	Area for potable water facility, trolleys or stretchers, clean and dirty utility, housekeeping material or janitor room, biomedical waste management facility, laundry etc.,						

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Procedural Management Zone								
52	Masrah Amaliya (Operation Theatre) attached with Minor Operation Theatre: for Surgical and Para surgical treatment	175	225	275	325	175		
53	# Ghurfatul Wilada (Labour room with Maternity Operation Theatre)	150	150	200	200	150		
54	# Ilaj bit Tadabeer Procedure Section	200	300	400	500	200		
55	# Physiotherapy Section	75	100	125	150	75		
56	# Yoga and Riyazat Section	50	50	75	100	50		
Administrative Zone								
57	Medical Director room	400	450	500	550	120		
58	Medical Superintendent room							
59	Personal Assistant to Medical Director or Medical Superintendent room							
60	Deputy Medical Superintendent room							
61	Resident Medical Officer or Resident Surgical Officer room							
62	Matron room							
63	Assistant Matron room							
64	Office space for Superintendent							
65	Office space for Accountant and other staff							
66	Waiting lounge for the visitors							
67	Doctor's lounge							
68	Intern's room							
69	Staff room							
70	Meeting hall							
71	Pantry							
72	Store							
73	Toilets							
Service Zone								
74	Ghiza Makhsoosa (Specific diet) including instant medicine preparation section	50	75	100	125	50		
75	The other provisions in the service zone							
	Total	3140	4475	5885	7245	2325		

(Only for PG Institute)

Minimum required facilities for Central Research Laboratory

Phytochemical test facility		Available / Not Available	Deficiency
1.	Qualitative		
	1.Organic tests		
	2.Inorganic tests		
	3.Fluorescence analysis of powders		
	4.Chromatography		
	i. TLC (Thin Layer Chromatography)		
	iii. Column Chromatography		
2.	Pharmacognostic		
	(a) Authentication		
	(b) Macroscopic		
	(c) Section microscopy		
	(d) Powder microscopy		
	(e) Microtome section		
	(f) Multiple staining and permanent slide preparation		
	(g) Digital microscopy		
	(h) Quantitative microscopy (Stomata number, Stomatal Index, Palisade number, Vein islet number)		
3.	Microbiological		
	(a) Microbial limits		
	i. Total bacterial count		
	ii. Total Fungal count		
	iii. Tests for specific pathogens		
	(b)Antimicrobial study (Cup Plate method, MIC and MBC)		
	i. Antibacterial		
	ii. Antifungal		
	(c) Microbial culture		
	i. Water		
	ii. Clinical Swab		
4.	Invitro Studies:		
	(a) Antioxidant		
	(b) Immunomodulatory		
	(c) Antimicrobial		
	Quantitative		
1.	Flame photometry Calcium, Sodium, Potassium,		
2.	UV Spectrophotometry		
	(a) Phenols, Flavonoids, Carbohydrate, Proteins, Sugar, Iron etc		

(Only for PG Institute)

Minimum requirements for Quality Testing Laboratory

Serial number	Particulars	Available /Not Available	Deficiency
1.			
2.	UV-VIS Spectrophotometer		
3.	Micro Controller Based Flame Photometer		
4.	Rota Evaporator		
5.	Stability Chamber		
6.	Freeze dryer		
7.	Trinocular Microscope with software, camera and projection facility		
8.	Polarimeter		
9.	Muffle furnace		
10.	Orbital Shaking Incubator		
11.			
12.	Tablet Disintegration Apparatus		
13.	Optic Abbe Refractometer		
14.	Friability Test Apparatus		
15.	Digital Melting Point Apparatus		
16.	Laminar Air Flow		
17.	Water still		
18.	Rotary Microtome and Microtome Object Holder		
19.	Digital pH Meter		
20.	Moisture analyzer Balance		
21.	Orbital Shaker		
22.	Mechanical Stirrer with Hot Plate		
23.	Magnetic Stirrer		
24.	Dissolution Test Apparatus		
25.	Hardness tester		
26.	Mohs hardness scale		
27.	Tablet counter small size		
28.	Dissolution Test Apparatus		
29.	Bulk Density Apparatus		
30.	Viscometer		
31.	Analytical Balance Digital High precision (0.0001g 220g)		
32.	Incubator		
33.	Clarity test apparatus		
34.	Humidity Control Oven		
35.	Karlfischer Apparatus		
36.	Sieve Shaker		
37.	Granulating sieve set		
38.	Thermometers		
39.	Centrifuge		
40.	Filtration equipment		
41.	Water bath 12 holes		
42.	Suction Pump		
43.	Sonicator		
44.	Heating Mantle different capacity		

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45.	Distillation Apparatus Glass (Ark Yantra)		
46.	Soxhlet apparatus		
47.	Rheometer		
48.	Nephelo Turbidity meter		
49.	Potentiometer		
50.	Conductivity meter		
51.	Clevenger's apparatus		
52.	Glass ware, reagents and chemicals as required		
Note :- In case of Postgraduate departments in existing undergraduate college, the instruments or equipment or facilities other than specified in MES-UG shall be made available.			