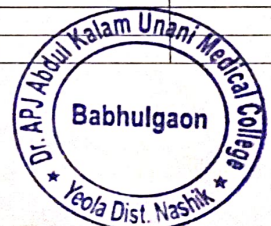


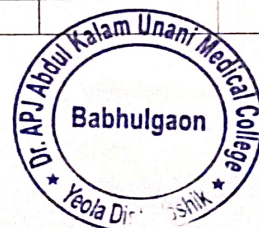
SCHEDULE-XI (Not Applicable)

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)

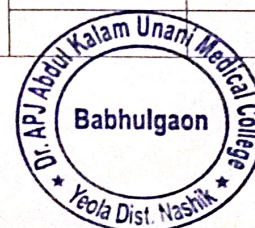
Serial No. (1)	Equipment and Instruments (2)	Sixty students intake capacity (3)	One hundred students intake capacity (4)	One hundred Fifty students intake capacity (5)	Two hundred students intake capacity (6)	Available	Deficiency	
A	Computer, Printer with Internet Facility							
B	Departmental Library Numbers of Books Available : _____							
C	e-display (smart board or smart television or light emitting diodes display)							
D	Ilmul Saidla Practical Laboratory (Teaching Pharmacy)							
1	Silbatta							
	a Small	Ten	Twenty	Thirty	Forty			
	b Medium	Ten	Twenty	Thirty	Forty			
	c Large	Ten	Twenty	Thirty	Forty			
2	Kharal (Pestle and mortar)							
	a Sange Marmar	Two	Three	Four	Five			
	b Sange Siyah	Two	Three	Four	Five			
	c Sange Summaq	Two	Three	Four	Five			
	d Porcelain	Ten	Twenty	Thirty	Forty			
	e Iron	Two	Four	Six	Eight			
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			
4	Havan Dasta (for Pounding)	Ten	fifteen	Twenty	twenty-five			
5	Boota (Crucibles)	Ten	Twenty	Thirty	Forty			
6	Putt (bhatti) (Different kinds)	Ten	Ten	Ten	Ten			
7	Phunkni (Blower)	Two	Four	Six	Eight			
8	Heating device							
	a Gas stove	Fifteen	Twenty	Twenty-five	Thirty			
	b Induction stove	As required						
	c Choolha or Angeethi (Charcoal or wooden block)	As required						
	d Hot plate	As required						
9	Balance different capacities							
	a Physical	One	Two	Three	Four			
	b Electronic	One	Two	Three	Four			
	c Chemical	One	One	Two	Two			
10	Vessels, jars, plates, tray etc							
	a Brass vessels and containers	Assorted						
	b. Copper vessels and	Assorted						



	containers				
	c Steel vessels and containers	Assorted			
	d Iron vessels and containers	Assorted			
	e Mud or Earthen vessels and containers	Assorted			
	f Frying pan	Assorted			
	g Spatula	Assorted			
	h Ladle and spoon	Assorted			
	i Steel plates	Assorted			
	j Enamel tray	Assorted			
	k Plastic tray	Assorted			
	l Jars and Containers	Assorted			
11	Grinding machines				
	a Mixer grinder	One	Two	Three	Four
	b Wet grinder	One	One	Two	Two
12	Pyrometer	Assorted			
13	Refrigerator	One	One	One	One
14	Thermometer	As required			
15	Knives	Assorted			
16	Scrappers	Assorted			
17	Chopping pad	Assorted			
18	Measuring equipment of different sizes (glass)	Assorted			
19	Porcelain jars for fermentation purpose	Assorted			
20	Sieves (Different size and numbers)	Assorted			
21	Juice extractor	Assorted			
22	Pressure cooker	Assorted			
23	Fire extinguisher	One			
24	Spirit lamp	Assorted			
25	Almirahs and Racks for storage	Assorted			
<p>Note 1. Putt (Bhatti) shall be maintained in the suitable area in the college premises to demonstrate different process. 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 practical's listed in the syllabus and for demonstrative teaching. Fire safety measures should be available.</p>					
B. Quality Testing Laboratory					
1	Tablet Disintegration apparatus				
2	Muffle furnace				
3	Soxhlet apparatus with heating unit				
4	Magnetic stirrer				
5	Water bath (Temperature controlled)				
6	Centrifuge				
7	Centrifuge tube				
8	Titration tube				
9	Glass or steel distillation apparatus				
10	Digital pH meter				
11	Tablet hardness tester				
12	Tablet friability tester				
13	Tablet dissolution tester				
14	Hydrometer				
15	Alcohol determination apparatus				
16	Vernier caliper				
17	Hot plate				
18	Heating mantles				
19	Bulk density tester				
20	Rotary shaker				



21	Ultraviolet spectro-photometer (Optional)		
22	Refractometer		
23	Hot air oven (different range of temperature)		
24	Microwave oven		
25	Pyrometer		
26	Pycnometer or Specific gravity bottle		
27	Microscope (Simple)		
28	Microscope with software (Motic or Cartzesis) (Optional)		
29	Compound microscope		
30	Microtome		
31	Microslide cabinet		
32	Dissection box		
33	Aluminum side trays		
34	Ocular micrometer		
35	Stage micrometer		
36	Camera Lucida Prism type and mirror type (Optional)		
37	Boiling point and Melting point determination apparatus		
38	Volatile oil determination apparatus (Clevenger apparatus)		
39	Viscometer (Ostwald's, Redwood)		
40	Glassware (beakers, funnel, test tubes, measuring cylinders, conical flasks, glass rod, dropper etc)		
41	Pipette		
42	Chemicals and reagents		
43	Electronic balance		
44	Sieve shaker (sieves 10 to 120)		
45	Flask shaker		
46	Slide with cover slip		
47	Pestle and mortar		
48	Litmus paper (blue and red)		
49	Hydron pH paper		
50	Test tube rack		
51	Spatula, Spoon etc.,		
52	Filter paper		
53	Spirit lamp		
54	Round bottom glass with iron mesh		
55	Platinum wire		
56	Watch glass		
57	Bunsen burner		
58	Refrigerator		
59	Dehumidifier		
60	Liquified Petroleum Gas cylinder with burners		
61	Silica crucible		
62	Moisture determination apparatus		
63	Conductivity meter (Hand operated and bench top model)		
64	Nephelometer and Turbidimeter		
65	Thin layer chromatography apparatus and all accessories		
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	
2	Advia Madaniya (Metals and Minerals)	(Poisonous substances should be preserved safely in locked display shelf cabinet)	
3	Advia Haywaniya (Animal dervatives)		



4	Kushtajat, Khar, Rubb Satt etc	Samples in glass jars		
5	Qara Ambiq	Each one		
6	Nal Bhabka			
7	Patal Jantar			
8	Jal Jantar			
9	Damru Jantar			
10	Tareeqe Lolabi			
11	Tareeqe habli			
12	Hamme mayiya			
13	Jar Alaqi			

