

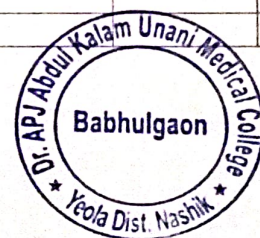
SCHEDULE-X (Not Applicable)

**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**

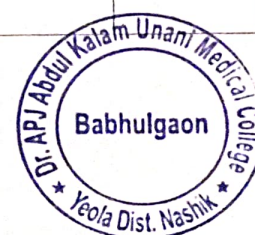
S No (1)	Equipment and Instruments (2)	Sixty students intake capacity (3)	One hundred students intake capacity (4)	One hundred Fifty students intake capacity (5)	Two hundred students intake capacity (6)	Available	Deficiency	
A	Computer, Printer with Internet facility							
B	Departmental Library Numbers of Books Available : _____							
C	e-display (smart board or smart television or light emitting diodes display and the like)							
D Ilmul Advia Practical Laboratory								
1	Silbatta							
	a Small	Two	Four	Eight	Ten			
	b Medium	Two	Four	Eight	Ten			
	c Large	Two	Four	Eight	Ten			
2	Kharal (Pestle and mortar)							
	a Sange Marmar	Two	Four	Eight	Ten			
	b. Sange Siyah	Two	Four	Eight	Ten			
	c. Sange Sumaaq	Two	Four	Eight	Ten			
3	Distillation apparatus	One	One	One	One			
4	Soxhlet apparatus with heating unit	One	One	Two	Two			
5	Havan Dasta (for Pounding)	Two	Four	Eight	Ten			
6	Centrifuge	Two	Four	Six	Eight			
7	Clevenger Apparatus	Two	Two	Four	Four			
8	Centrifuge tube	As required						
9	Test tube	Assorted						
10	Test tube holder	Assorted						
11	Test tube rack	Assorted						
12	Conical flask	Assorted						
13	Glass rod size 8	As required						
14	Dropper	As required						
15	Beaker (100 ml, 250 ml, 500 ml,	As required						



	1000 ml)				
16	Measuring jars (Glass) (10 ml, 25 ml, 100 ml, 500 ml)	As required			
17	Measuring jars (Plastic or Fiber) (10 ml, 25 ml, 100 ml, 500 ml)	As required			
18	Heating device				
	a Gas stove	As required			
	b Bunsen burner	As required			
	c Induction stove	As required			
19	Balance				
	a Physical	One	One	Two	Two
	b Electronic	One	Two	Three	Four
20	Refrigerator	One	One	One	One
21	Vessels				
	a. Copper	Assorted			
	b. Steel	Assorted			
	c. Iron	Assorted			
	d. Earthen	Assorted			
22	Ladle, Spatula, Spoon etc .	Assorted			
23	Juice extractor	As required			
24	Glass jars	As required			
25	Pasteur pipette 1 ml	As required			
26	Pipette	As required			
27	Funnel	As required			
28	Round bottom flask with iron mesh	As required			
29	Watch glass 80 mm	As required			
30	Platinum wire	As required			
31	Brush	As required			
32	Blotting or Filter paper	As required			
33	pH indicator paper	As required			
34	Knives	Assorted			
35	Steel plates	Assorted			
36	Enamel tray	Assorted			
37	Areca nut cutter	As required			
38	Chopping pad	Assorted			
39	Surgical gloves	As required			
40	Water bath	One	One	Two	Two
41	Spirit lamp	As required			
42	Chemicals and reagents	As required			
43	Almirahs and racks for storage	As required			
44	Test tubes and test tube racks	As required			
45	Fire extinguisher	One			
46	Muffle Furnace	One			
<p>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</p>					
B. Wasful Aqaqir (Pharmacognosy) Practical Laboratory					
Plant Anatomy					



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



42	Stools for students (preferably revolving)	As required					
43	Refrigerator	One					
Herbarium							
44	Plant press	Ten	Fifteen	Twenty	Twenty - five		
45	Wooden Field press	Ten	Fifteen	Twenty	Twenty - five		
46	Vasculum/Botanical box	Five	Ten	Fifteen	Twenty		
47	Herbarium cabinet	One	One	One	One		
48	Gardening tools for herbal garden (Spade, hand hoes, rake, crowbar, garden scissors, secateurs, water hose, hand sprinkler, sand bond etc.,	As required					
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)					
2	Advia Madaniya (Metals and Minerals)						
3	Advia Haywaniya (Animal Derivatives)						
4	Herbarium cabinet with Urdu alphabetical cases	one hundred specimens	one hundred fifty specimens	two hundred specimens	two hundred fifty specimens		
5	Permanent microslide specimens	Twenty					

