

SCHEDULE-X

Minimum Essential Standards: Requirement of Equipment and Instruments for Ilmul Advia (Pharmacology) Practical Laboratory, Wasful aqair (Pharmacognosy) Practical Laboratory, Herbarium and Museumcumtutorial 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	Computer, Printer with internet facility					Available	0
B	Departmental Library Number of Books Available: 72					Available	0
C	e-display (Smart board of smart television or light emitting diodes display and the like)					Available	0
A. Ilmul Advia Practical Laboratory							
1	Silbatta						
	a. Small	Two	–	–	–	2	0
	b. Medium	Two	–	–	–	2	0
	c. Large	Two	–	–	–	2	0
2	Khara I(Pestle and mortar)						
	a. Sange Marmar	Two	–	–	–	2	0
	b. Sange Siyah	Two	–	–	–	2	0
	c. Sange Sumaaq	Two	–	–	–	2	0
	d. Proelin					10	0
	e. Iron					1	0
3	Distillation apparatus	One	–	–	–	1	0
4	Soxhlet apparatus with heating unit	One	–	–	–	2	0
5	Havan Dasta(for Pounding)	Two	–	–	–	10	0
6	Centrifuge	Two	–	–	–	4	0
7	Clevenger Apparatus	Two	–	–	–	2	0
8	Centrifuge tube	As required				Available	0

9	Test tube	Assorted				Available	0
10	Testtube holder	Assorted				Available	0
11	Test tube rack	Assorted				Available	0
12	Conical flask	Assorted				Available	0
13	Glass rod size 8	As required				Available	0
14	Dropper	As required				Available	0
15	Beaker (100ml,250ml,500ml,1000ml)	As required				Available	0
16	Measuring jars (Glass) (10ml,25 ml,100ml,500ml)	As required				Available	0
17	Measuring jars (Plasticor Fiber) (10 ml, 25 ml, 100 ml, 500 ml)	As required				Available	0
18	Heating device						
	a. Gas stove	As required				Available	0
	b. Bunsen burner	As required				Available	0
	c. Induction stove	As required				Available	0
19	Balance						
	a. Physical	One	-	-	-	1	0
	b. Electronic	One	-	-	-	1	0
20	Refrigerator	One	-	-	-	1	0
21	Vessels					Available	0
	a. Copper	Available				Available	0
	b. Steel	Available				Available	0
	c. Iron	Available				Available	0
	d. Earthen	Available				Available	0
22	Ladle,Spatula,Spoon etc.,	Available				Available	0
23	Juiceextractor	Available				Available	0
24	Glassjars	Available				Available	0
25	Pasteurpipette 1ml	Available				Available	0
26	Pipette	Available				Available	0

27	Funnel	Available				Available	0
28	Round bottom flask with iron mesh	Available				Available	0
29	Watchglass 80mm	Available				Available	0
30	Platinum wire	Available				Available	0
31	Brush	Available				Available	0
32	Blotting or Filter paper	Available				Available	0
33	pH indicator paper	As required				Available	0
34	Knives	Assorted				Available	0
35	Steel plates	Assorted				Available	0
36	Enamel tray	Assorted				Available	0
37	Areca nut cutter	As required				Available	0
38	Chopping pad	Assorted				Available	0
39	Surgical gloves	As required				Available	0
40	Water bath	One	–	–	–	1	0
41	Spirit lamp	As required				Available	0
42	Chemicals and reagents	As required				Available	0
43	Almirahs and racks for storage	As required				Available	0
44	Test tubes and test tube racks	As required				Available	0
45	Fire extinguisher	One				1	0
46	Muffle Furnace	One				1	0
<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, according to student intake capacity for the smooth conduct of practical's listed in the syllabus and for demonstrative teaching.</p> <p>2. Fire safety measures should be available.</p>							
B. Wasful Aqaqir (Pharmacognosy) Practical Laboratory							
Plant Anatomy							
1	Field magnifier	Six	–	–	–	6	0
2	Trinocular microscope with digital camera	One	–	–	–	1	0

3	Compound microscope	Fifteen	-	-	-	15	0
4	Watch glass	Fifteen	-	-	-	15	0
5	Micro slides(boxes)	Five	-	-	-	5	0
6	Cover glass(boxes)	Five	-	-	-	5	0
7	Wash bottles	Five	-	-	-	5	0
8	Slide box with permanent slides	Required as per the syllabus					
9	Plastic dropper bottle-10ml	Thirty	-	-	-	30	0
10	Petridishes-set	Thirty	-	-	-	30	0
11	Chemical sandreagents	As required				Available	0
Plant Taxonomy							
12	Dissecting Microscope	Thirty	-	-	-	30	0
13	Enamel trays	Fifteen	-	-	-	15	0
14	Hand magnifier	Thirty	-	-	-	30	0
15	Specimen bottles(500ml)	As required				Available	0
16	Dissection box with brushes, needles, and razor/blades	Thirty	-	-	-	30	0
17	Formaldehyde (Preservation)	As required				Available	0
Chromatography							
18	Thin Layer Chromatography Chamber	Fifteen	-	-	-	15	0
19	Thin layer chromatography pre-coated plates (in boxes)	One	-	-	-	1	0
20	Thin laye rchromatography glass plates	Fifteen	-	-	-	15	0
21	Mortarand Pestle	Five	-	-	-	5	0
22	Reagent bottle	Ten	-	-	-	10	0
23	Beaker-250ml	Ten	-	-	-	10	0
24	Beaker-100ml	Ten	-	-	-	10	0
25	Conical flask	Five	-	-	-	5	0
26	Glass funnel	Ten	-	-	-	10	0

27	Micro pipette	Fifteen	-	-	-	15	0
28	Measuring cylinder-10ml	Ten	-	-	-	10	0
29	Measuring cylinder-25ml	Ten	-	-	-	10	0
30	Measuring cylinder-100ml	Ten	-	-	-	10	0
31	Whatsman filter paper roll	One	-	-	-	1	0
32	Filter paper round-box	Five	-	-	-	5	0
33	Capillary tube(Box)	One	-	-	-	1	0
34	Chemicals and reagents	As required				Available	0
Miscellaneous							
35	Electronic balance	One	-	-	-	1	0
36	Chemical balance	One	-	-	-	1	0
37	Ocular micrometer	One	-	-	-	1	0
38	Stage micrometer	One	-	-	-	1	0
39	Camera Lucida prism type and mirror type (optional)	One	-	-	-	1	0
40	Hotplates	One	-	-	-	1	0
41	Liquified Petroleum Gas cylinder with burner	As required				Available	0
42	Stools for students (preferably revolving)	As required				Available	0
43	Refrigerator	One				1	0
Herbarium							
44	Plant press	Ten	-	-	-	10	0
45	Wooden Field press	Ten	-	-	-	10	0
46	Vasculum /Botanical box	Five	-	-	-	5	0
47	Herbarium cabinet	One	-	-	-	1	0
48	Gardening tools for herbal garden (Spade, hand hoes, rake, crowbar, garden scissors, secateurs, water hose, hands prinkler, sandbond etc.	As required				Available	0

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C. Museum Cum Tutorial Room								
1	Advia Nabatiya (Herbs)	Specimens of concerned categories				Available	0	
2	Advia Madaniya (Metals and Minerals)	(Poisonous substances should be preserved safely in locked display shelf cabinet)				Available	0	
3	Advia Haywaniya (Animal derivatives)					Available	0	
4	Herbarium cabinet with Urdu alphabetical cases	One hundred specimens	–	–	–	Available	0	
5	Permanent micro slide specimens	Twenty				Available	0	