

تجهيز مختبر لمساقات الكيمياء العامة والعضوية العملية
لطلبة العلوم الطبية

1- Instruments:

No.	item	Qnt.	Est. price
1	Analytical Balances - Capacity 310g - Readability 0.0001g - Repeatability ± 0.0002g - Linearity ± 0.0003g	3	
2	Electronic Balance - Capacity 400g - Readability 0.01g - Readability 0. 1g	4	
3	Circulator Water Bath - Bath volume 42L - Temperature Range 25-100°C - Temperature Accuracy $\pm 0.5^\circ\text{C}$	3	
4	Fume Hood	4	
5	Hot plate + Magnetic stirrers	10	
6	Deionizer	1	
7	Heating oven	2	
8	Ice maker	1	
9	Centrifuge	2	
10	Water Still { Distiller }	2	
11	Digital melting point apparatus	3	
12	Kruss Polarimeter P100-LED	2	
13	LCD Projector	1	
14	Computer	1	
15	Acid base cabinet	1	
16	Bunsen Burner	12	
17	Oil-free Vacuum Pumps	2	

2- Glassware and disposable items:

No	Item	Unit	Qtn.	Est. price
1.	Beakers, Pyrex	1L	24	
2.	Beakers, Pyrex	50ml	48	
3.	Beakers, Pyrex	100ml	48	
4.	Beakers, Pyrex	250ml	48	
5.	Beakers, Pyrex	500ml	48	
6.	Burretes with Teflon stopcock	50ml	48	
7.	Conical flasks	125 mL	48	
8.	Conical flasks	250 mL	48	
9.	Crucible + cover (Porcelain)	50ml	100	
10.	Filter paper W1#	Dia. 12.5cm	20 pack	
11.	Filter paper W1#	Dia. 9 cm	20 pack	
12.	Funnels, Pyrex	I.D 55mm	48	
13.	Funnels, Pyrex	I.D 75mm	48	
14.	Funnels, separating	125ml	48	
15.	Graduated cylinder	10ml	48	
16.	Graduated cylinder	25ml	48	
17.	Graduated cylinder	50ml	48	
18.	Graduated cylinder	100ml	48	
19.	Melting-point capillary tubes (close one end)	pack	10	
20.	Micro-spoon spatulas	150 mm	50	
21.	Pipette pumps	10 ml	12	
22.	Pipette pumps	25 ml	12	
23.	Pipette pumps	50 ml	12	
24.	Round-bottom boiling flasks (1-neck), central joint (24/29)	100 ml	24	

25.	steam distillation set		12	
26.	Round-bottom boiling flasks (2-neck) central joint(24/29), side joint(18.8/26)	250ml	12	
27.	Spoon spatulas, scoop	160mm	24	
28.	Test tube, Pyrex	16/150mm	4 pack	
29.	Test tube, Pyrex	25/150mm	4 pack	
30.	Test tube, Pyrex	12/75mm	4 pack	
31.	Transfer pipettes, (disposable plastic)	1ml	5pack	
32.	Transfer pipettes (disposable plastic)	3ml	5pack	
33.	Volumetric flasks (Pyrex)	50 mL	48	
34.	Volumetric flasks (Pyrex)	100 mL	48	
35.	Volumetric flasks (Pyrex)	200 mL	48	
36.	Volumetric flasks (Pyrex)	250 mL	48	
37.	Ring for separatory funnel	Dia 6 cm	48	
38.	Clay triangles, porcelain	4 cm	48	
39.	Brushes for tubes	L (30 0mm)	48	
40.	Brushes for tubes	L (360 mm)	48	
41.	Magnetic stirring bar	pack	5	
42.	Glass rod	L 25 cm	30	
43.	Parafilm	pack	5	
44.	Test tube holder, iron	piece	48	
45.	Gloves(M,L)	pack	10	
46.	Rubber stopper	Dia 2cm	10	
47.	Borosilicate glass tube	Dia 1cm	10 m	
48.	Borosilicate glass tube	Dia 2 cm	6 m	
49.	Glass tube cutter	piece	2	
50.	Washing bottles – 500ml	piece	20	
51.	Silicone vacuum translucent rubber tube	I.D. 8 mm	4 m	
52.	Silicone vacuum translucent rubber tube	I.D. 18 mm	4 m	

53.	Test tube clamps	piece	48	
54.	Falsk clamps	piece	48	
55.	Three finger clamps	piece	48	
56.	Colum chromatography	L 30 cm	48	
57.	pH-paper, strips 0-14	Pack	10	
58.	Wire gauze	Piece	48	
59.	Burette stand	Piece	24	
60.	Watch glasses	80 mm	48	
61.	Watch glasses	125 mm	48	
62.	Periodic table of the element	Piece	2	
63.	Glass rod	25cm	20	
64.	Thermometer, Digital - 50 °C to +150 °C / 0.1°C	Piece	12	
65.	Thin layer chromatography plates coated with silica gel 60	pack	2	
66.	Mortar and pestle (set)	60 mm	4	
67.	Pipette, Volumetric	5 ml	24	
68.	Pipette, Volumetric	10 ml	24	
69.	Pipette, Volumetric	25 ml	24	
70.	Pipette, Volumetric	50 ml	24	
71.	Bunsen burners	Piece	24	
72.	Evaporating dishes	50 ml	24	
73.	Evaporating dishes	75 ml	24	
74.	Goggles	Piece	48	
75.	Crucible tongues	Piece	48	
76.	Condensers	300mm-Piece	48	
77.	Test tube rack	16/150mm-pack	15	

78.	Test tube rack	25/150mm-pack	6	
79.	burette clamp	Piece	24	
80.	Ring stand for Bunsen burner	Piece	24	
81.	Aspirator Bottle (5L)	Piece	4	
82.	Thermometer, tubing adapters	Piece	24	
83.	Adapter distilling (Stillhead , plain)	Piece	24	
84.	Adapter distilling (receiver)	Piece	24	
85.	Jack, laboratories	Piece	24	
86.	Dark amber glass bottle	50ml	48	
87.	Magnetic stirrer rod	piece	4	
88.	Thermometer, mercury Scale division 1 -10 +360 °C	piece	12	

3- Chemicals

No	Item	Unit	Est. Price
1.	Sodium sulfate	2Kg	
2.	Calcium Chloride	2Kg	
3.	Hydrochloric acid (32 %)	5 L	
4.	Silver nitrate	2Kg	
5.	Ammonium chloride	2Kg	
6.	Magnesium ribbon	2Kg	
7.	Copper(II)sulfate pentahydrate	2Kg	
8.	Barium chloride	2Kg	
9.	Phenolphthalein indicator	100 g	
10.	Starch	2Kg	
11.	Sodium chloride	2Kg	
12.	Potassium hydrogen phthalate	2Kg	
13.	Sodium hydroxide	2Kg	
14.	Potassium chloride	2Kg	

15.	Zink granulated puriss	500 g	
16.	Benzoic acid	2Kg	
17.	Acetic acid glacial	5L	
18.	Cyclohexane	5 L	
19.	1,4 Dichlorobenzene	2Kg	
20.	Sodium carbonate	2Kg	
21.	Acetanilide	2Kg	
22.	Salicylic acid	2Kg	
23.	Ethanol	5L	
24.	Methanol	5L	
25.	Acetone	5L	
26.	chloroform	5L	
27.	Acetanilide,98% (impure) Alfa(103844)	2Kg	
28.	Ethyleacetate	5L	
29.	Sodium bicarbonate	2Kg	
30.	p-nitro aniline	2Kg	
31.	O-nitro aniline	2Kg	
32.	Methylene blue	2Kg	
33.	Methyl orange	2Kg	
34.	Silica gel 60	5Kg	
35.	Acetic anhydride	5L	
36.	Sulfuric acid	2L	
37.	Acetylsalicylic acid (Aspirin)	1Kg	