

COLLEGE INSTRUMENTS AND EQUIPMENTS DETAILS

DISSECTION HALL (RACHANA SHARERA)		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Section machine, bone cutter, marble cutter (Body and skull cutting), Chisel, bone saw	Available
2	Dissection Tables Sets (Small)	08
3	Dissection demo station (equipped with shadow less focuslight, high resolution close circuit camera, dissection table(big))	01
4	Dissecting Table-Half size with steel top or marble top stainless	08
5	Bone cutter of the number 3/4, 1/2, 1/4, 1/8 - fine pointed Chisel bone dissector	Available
6	Dissection instrument kit (scalpel, blades, toothed forceps, untoothed forceps, probe, magnifying lenses with light, hook or scissors)	30
7	X-ray viewing box or panels	05
8	Smart board or multimedia projector attached with edissection software	01
9	Articulated skeleton set (one set each for fifty students)	02
10	Bone set (Dis-Articulated) (one set for each twenty students)	03
11	Pro dissected parts (upper limb or lower limb thorax or abdomen or head or neck)	06
12	Cadavers (one body each for twenty students)	03
13	Mummified body (for demonstration of surface anatomy)	01
14	Storage tank to hold cadavers, static or movable, durable Tank with input and output facility with lid or cold storage Unit	02
15	Specimens (wet specimens)	100
16	Platinated specimens	10
17	Brain section slices (sheet plastination)	10

18	Microscope (trinocular with digital camera, including software for projection through liquid crystal display or smart board or smart television for demonstration of histology and others)	01
19	Computer installed with e-dissection program connected to projector or smart board	01
20	Embalming equipment	01
21	3D virtual cadaver dissection table	Available
22	E- dissection (subscription of Atlas of human Anatomy or any other dissection video compact discs)	Available
REAGENTS		
S. No	Reagents/Liquids/Others	Availability
1	Preservative Chemicals	Available
TOTAL		193

PHYSIOLOGY LABORATORY (KRIYA SHARIR)		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Microscope (trinocular with digital camera, including software for projection through liquid crystal display or smart board or smart Television for demonstration of histology and others)	01
2	Westergren's pipette for ESR	30
3	Haematocrit Tube	30
4	Sahli's Haemoglobinometer	33
5	Haemocytometer	32
6	Sphygmomanometer	05
7	Stethoscope	05
8	Clinical Thermometer	10
9	Knee Hammer	10
10	Tuning forks	10
11	Electrocardiograph	02
12	Stop watches	50
13	Water Distillation still	01
14	Balances	01
15	Consumables kits, reagents, chemicals, microscope slides, coverslips, gloves, lancets etc.	Available
16	Centrifuge machine with digital regulator	01
17	Colorimeter (Photoelectric)	03
18	pH Meter (Electric)	01
19	pH Comparator with disc in a batch	01
20	Refrigerator	01
21	Newton's colour wheel in a batch	01
22	Sterilizer	05
23	Microscope (binocular with eye piece (wide field), objectives (10x, 40x spring loaded, 100x oil immersion spring loaded built-in illumination)	07
24	Digital weighing scale	05
25	Measuring tape	10
26	Height measurement scale	05
27	Naadi recording equipment	05
TOTAL		265

RASASHASTRA AND BHAISHAJYA KALPANA LABORATORY (TEACHING PHARMACY)		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Khalva Yantra- Small	10
2	Khalva Yantra- Medium	10
3	Khalva Yantra- Porcelain	10
4	Taptakhalva yantra	03
5	Heating Device-Gas Stove	Available
6	Digital balance	01
7	Heating Device-Hot plate	Available
8	Heating Device-Chulla (Charcoal)	Available
9	Vessels-Frying Pan	Available
10	Vessels-Steel Vessel	Available
11	Vessels-Spatula	Available
12	Vessels-Ladles & Spoons	Available
13	Vessels-Knife	Available
14	Vessels-Plates	Available
15	Vessels-Samdamsa Yantra(Tongs)	Available
16	Measuring Equipments Different Size (Glass)	Available
17	Big Vessels & Containers- Brass	Available
18	Big Vessels & Containers-Copper	Available
19	Big Vessels & Containers-Steel etc.	Available
20	Pounding Apparatus (Ulukhala Yantra)	03
21	Sieves (Assorted Numbers & Size)	Available
22	Wet Grinder	01
23	Mixer or grinder	01
24	Juice Extractor	01

25	Putas (Different kind)	03
26	Pyrometer	Available
27	Thermometer	Available
28	Pressure Cooker	Available
29	Moosha (Crucibles)	30
30	Koshti with Blower	02
31	Refrigerator	01
32	Jars (Porcelain) Fermentation Purpose	Available
33	Dola Yantra	01
34	Valuka Yantra	01
35	Pithara Yantra	01
36	Bhudhara Yantra etc.	01
37	Distillation Apparatus & Arka Yantra	01
38	Enamel Trays	Available
39	Earthen Vessels-Pots	Available
40	Kupipakva Bhatti	01
41	Almiras & Racks for storage	Available
42	Pestle and mortar glass	02
43	Bottle sealing machine(Manual/Automatic)	Available
44	Sealing machine	01
45	Filling machine	01
46	Ball mill (Stainless steel balls)	Available
47	Tincture press	01
48	Electronic balance of different capacities (up to100grms with accuracy 1.0 milligram, 100 -1000 grams with accuracy 1.0gram, 1kilogram and above)	03
49	Pulveriser(Lab Model)	Available
50	Granulator	01
51	Hand operated tablet punching machine	01
52	Tablet coating Panunit with hot air blower laboratory	01

53	Tablet polishing pan laboratory size	01
54	Dryer	01
55	Homogenizer	01
56	Pills making machine	Available
57	End runner machine	Available
58	Edge runner machine	Available
59	Capsule filling machine	Available
60	Double cone blender	Available
61	Liquid filling machine	Available
62	Planetary mixer(Lab Model) for ointment or cream	Available
63	Soft gelatin capsule filling	Available
64	Mechanised kharal- two or four arms	01
65	Chimney or air handling unit	Available
66	Mohs hardness test kit	05
67	Hot air oven	01
68	Walkers steelyard (for specific gravity of minerals)	Available
69	Automatic flask shaker	01
70	Water bath	01
71	Digital pH (per Hydrogen ion Concentration) meter	01
72	Tablet hardness tester	01
73	Muffle furnace (Horizontal)12 inches x 12 inches x 18 inches digital X maximum temp 1250 C	Available
74	Muffle furnace (Horizontal) (ash content tester) x digital display x maximum temp 900C	Available
75	Vertical furnace-Kupi pack type (two bottles) X Digital X maximum temp 900C	01
76	Non-contact infrared thermocouple K- type	01
77	Thermocouple K-type	01
78	Desiccator glass	02
79	Desiccator with vacuum	Available
80	Vacuum pump	Available
81	Vacuum pump Collapsible tube– filling and sealing Equipment	Available

82	Tray drier	Available
83	Hand grinding mill	Available
84	Kitchen aprons	Available
85	Steel trays	Available
86	Oven gloves	Available
87	Kadahi – iron	Available
88	Aluminium vessels	Available
89	Clay graphite silver melting crucible maximum temp 1500C	01
90	Crucible tongs 18 inches Stainless steel	Available
91	Ointment spatula	Available
92	Lipstick moulds	Available
93	Specimens of Rasashastra and Bhaishajya Kalpana related samples in suitable display containers	Available
TOTAL		113

QUALITY TESTING LABORATORY		
S.No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Computer, internet, printer	01
2	Smart board or Liquid Crystal Display projector	01
3	Ultra-violet visible Spectro photometer	01
4	Flame photo meter	01
5	Digital pH (per Hydrogen ion Concentration) meter	01
6	Precision melting point apparatus	0
7	Distillation unit for distilled water	01
8	Moisture analyser balance	01
9	Orbital shaker	0
10	Laminar air flow	0
11	Mechanical stirrer with hot plate	01
12	Magnetic stirrer	01
13	Dissolution test apparatus	01

14	Tablet disintegration test apparatus	0
15	Monsanto's hardness tester	01
16	Pfizer type hardness tester	01
17	Tablet counter– small size	01
18	Bulk density apparatus	0
19	Friability test apparatus	0
20	Ostwald's viscometer	0
21	Refractometer	01
22	Analytical balance digital high precision (0.0001g–220g)	01
23	Incubator	01
24	Clarity test apparatus	01
25	Humidity control oven	0
26	Karl Fischer apparatus	01
27	Sieve shaker	01
28	Graduating sieve se	0
29	Thermometer up to 110°	02
30	Centrifuge	01
31	Filtration equipment	02
32	Water bath twelve holes	01
33	Suction pump	0
34	Soni cator	0
35	Heating mantle different capacity	0
36	Total Leucocyte Count chamber and sprayer	02
37	Clevenger's apparatus	0
38	Arsenic limit test apparatus	0
39	Adjustable volume micro pipette	0
40	Rotary evaporator apparatus	0
41	Soxhlet apparatus	01

42	Reflux flask with condenser single neck	01
TOTAL		29

GLASSWARE AND CONSUMABLE		
S.No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Petri dish glass	Not Available
2	Petri dish polypropylene	Not Available
3	Watch glass	Not Available
4	Glassware	Available
5	Glass beaker-different capacity	Available
6	Measuring flask different capacity	Available
7	Volumetric flask different capacity	Available
8	Graduated measuring cylinder	Available
9	Buchner funnels small, medium,large	Available
10	Burette	Not Available
11	Nessler's cylinders	Not Available

PHARMACOGNOSY LABORATORY [DRAVYAGUNA]		
S.No	<u>Essential Equipment and Instruments</u>	<u>Count/Availability of Instruments /Equipments</u>
1	Microscope (trinocular with digital camera, including software for projection through liquid crystal display or smart board or smart television for demonstration of histology and others)	01
2	Magnification lens with light	05
3	Microscope (trinocular with digital camera, including software for projection through liquid crystal display or smart board or smart television for demonstration of histology and others)	01
4	Digital weighing scale (up to 10 grams with accuracy 0.001 milligram)	02
5	Digital weighing scale (10-100 grams with accuracy 0.001 gram)	02
6	Thin layer chromatography kit with thin layer chromatography applicator,	01
7	Hot air oven	Available
8	Muffle furnace	Available
9	Digital pH (per Hydrogen Ion Concentration) Meter	01
10	Ostwald viscometer	05
11	Pycnometer or specific gravity bottle	05
12	Soxhlet's extraction apparatus	01
13	Heating mantle (250,500and1000millilitre)	03
14	Bunsen burner electric or gas burner	10
15	Water bath (rectangular)	01
16	Ultraviolet-cabinet	01
17	Desiccator	01
<u>TOTAL</u>		<u>40</u>

GLASSWARE, CONSUMABLES AND LAB WARES		
S. No	Reagents/Liquids/Others	Availability
1	Dropper	Available
2	Needle	Available
3	Sharp razor blades	Available
4	Pipe clay triangles	Available
5	Wire mesh	Available
6	Test tube holders	Available
7	Reagent bottles	Available
8	Test tube stands	Available
9	Tripod stand	Available
10	Pair of tong	Available
11	Test tubes	Available
12	Thin layer chromatography plates 20x20cm (pre-coated)	Available
13	Evaporating dish	Available
14	Silica crucible	Available
15	Beakers two hundred milliliter	Available
16	Glass rods	Available
17	Conical flasks two hundred fifty milliliter	Available
18	Glass funnels	Available
19	Chemicals	Available
20	Safranin	Available
21	Light green	Available
22	Sudan red- III	Available
23	Glycerine	Available
24	Dragendorff's reagent	Available
25	Millon's reagent	Available

26	Wagner's reagent	Available
27	Benedict's solution	Available
28	Fehling's solution	Available
29	Iodine solution	Available
30	Methanol	Available
31	Distilled water	Available
32	Ethanol	Available
33	Hydrochloric acid	Available
34	Sulphuric acid	Available
35	Chloroform	Available
36	Phloroglucinol	Available
37	Acetic acid	Available
38	Ferric chloride	Available
39	Potassium iodide	Available
40	Magnesium turnings	Available
41	Ethyl acetate	Available
42	Toluene	Available
43	Silica gel GF-254	Available
44	Blotting or filter papers	Available
45	Microscope slides and cover slips	Available

ROGANIDANA AND VIKRITI VIJNANA (PATHOLOGY LABORATORY)		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments / Equipments
1	Microscope (trinocular with digital camera, including software for projection through liquid crystal display)	01
2	Microscope (binocular with eyepiece (wide field) objectives (10x, 40x spring loaded, 100x oil immersion spring loaded))	06

3	Bio chemistry analyser	01
4	Cell counter (haematology)	01
5	Digital spirometry	01
6	Electrocardiogram	Available
7	Enzyme linked immune-sorbant assay reader	01
8	X-ray view box	02
9	Blood pressure apparatus-non mercury	23
10	Stethoscope	07
11	Clinical thermometer	27
12	Tongue depressor	30
13	Knee hammer	Available
14	Measuring tape	10
15	Ear nose throat examination set	02
16	Weighing scale	01
17	Tuning forks	29
18	Nasal speculum	Available
19	Laryngoscope	Available
20	Hepatitis-B antigen kit	01
21	Human immunodeficiency virus kit-Tridot	01
22	Clotting time and Bleeding time kit	01
23	Renal profile, Liver function test kit, lipid profile, blood sugar kit, electrolytes	01
24	Sterile disposable lancet or needle	01
25	Glass rods	10
26	Syringe needle destroyer	Available
27	Cover slip	Available
28	Microscopic slides ,29-60 will be removed and stock and register will be same	04
TOTAL		161

AGADA TANTRA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Beakers-fifty millilitre	Available
2	Test Tubes-ten millilitre	Available
3	Test tube holders	Available
4	Gas or electric burner	Available
5	Petri-dish	Available
6	Stirrer	Available
7	Red litmus paper	Available
8	Hydrochloric acid	Available
9	Sulphuric acid	Available
10	Iodine solution (aqueous)	Available
11	Absolute alcohol	Available
12	Weapons	Available
13	Poisons snakes	Not Available
14	Non-poisons snakes	Available
15	Poisons herbs and minerals	Available

<u>SWASTHAVRITTA</u>		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Digital weighing scale	01
2	Kjheldahl system (digestion unit plus distillation unit)	01
3	Digital muffle furnaces	01
4	Soxhlet fat extraction system	01
5	Abbe's digital refractomete	01
6	Flame photometer	01

7	Hot air oven	Available
8	Refrigerator	Available
9	Water bath	Available
10	Grinder	01
11	Magnetic stirrer	Available
12	Hot plate	Available
13	Digital pH (per Hydrogen ion Concentration) meter	01
14	Vacuum filter system	01
15	Sonicator	01
16	Fume hood	01
17	Desiccator	01
18	Vortex mixer	01
19	Viscometer	Available
20	Refrigerated centrifuge	01
21	Digital polarimeter	01
22	Burette	Available
23	Glass pipette	Available
24	Micropipette (different capacities)	01
25	Heating mantle (different capacities)	01
TOTAL		17

YOGYA CLINICAL SKILL LABORATORY		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
1	Computer, internet with printer	1
2	BLS (Basic Life Support)	2
3	ALS (Advance Life Support)	2
KRIYA SHAIRA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
4	Chest auscultation trainer (Basic)	1
5	ECG (electro cardio gram) trainer	1
ROGA NIDANA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
6	Nursing trainer for decubitus	2
7	Chest auscultation trainer (advance)	1
8	Spirometry	2
9	Blood sampling trainer	2
AGADA TANTRA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
10	Documentation and certification of trauma	0
11	Diagnosis and certification of death	0
12	Legal documentation related to emergency cases	0
13	Certification of medico legal cases (for example- age estimation, sexual assault)	0
14	Establishing communication in medico legal cases with police, public health authorities, other concerned departments	0
15	Stomach wash trainer	1

KAYACHIKITSA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
16	Cardiopulmonary resuscitation trainer	2
17	Flatus tube insertion and Enema trainer (same to be used for basti administration)	2
18	Injections (intra-muscular, intra-venous, intra-dermal, subcutaneous, intra arterial, intra-articular and intra-cardiac)	3
19	Aerosol therapy or nebulization	2
20	Setting up intra-venous infusion and calculation of drip rate – basic life support	2
21	Oxygen therapy	1
22	Abdominal examination simulator	1
SHALYA TANTRA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
23	Ryle's tube insertion trainer	1
24	Pleural and ascetic aspiration trainer	1
25	Flatus tube insertion to be used for per rectal matra basti	1
26	Early management of trauma and trauma life support	1
27	Blood transfusion	1
28	Urinary catheterization– male (same to be used for uttara basti)	2
29	Urinary catheterization–female (same to be used for intra vesicle uttara basti)	2
30	Cautery–chemical and thermal or electrical	1
31	Basic incision and suture trainer	5
32	Basic wound care	2
33	Basic bandaging including compression bandage	1
34	Incision and drainage trainer	1
35	Basic fracture and dislocation management trainer	1
36	Examination of breast lump	1
37	Examination of swelling	1

38	Per-rectal and Prostate examination trainer	1
PRASUTI AND STREEROGA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
39	Per speculum and per vaginal examination trainer	1
40	Intra uterine contraceptive device insertion and removal trainer	1
41	Episiotomy trainer	3
42	Normal labour and delivery (including partogram)	1
43	Intra uterine insemination trainer (same to be used for intra uterine utara basti)	1
44	Obstetric examination trainer	1
45	Visual inspection of cervix	1
46	Obstetric examination trainer	1
47	Visual inspection of cervix	1
SHALAKYA TANTRA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
48	Otoscopy	4
49	Visual acuity testing	5
50	Digital tonometry	1
51	Epilation	5
52	Eye irrigation	3
53	Instillation of eye medication	3
54	Ocular bandaging	3
55	Anterior and posterior nasal packing trainer	1
56	Foreign body removal training	Available
57	Exchange transfusion	1
KAUMARABHRITYA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments

58	Neonatal resuscitation	1
59	Umbilical cord catheterization	1
60	Setting up paediatric intra-venous infusion and calculating drip rate	2
61	Paediatric injection trainer	1
62	Enema trainer for basti administration	1
PANCHAKARMA		
S. No	Essential Equipment and Instruments	Count/Availability of Instruments /Equipments
63	Catheterization (male and female) foruttara basti	2
TOTAL		96