SANTOSH Deemed to be University



4.2.1 Teaching Hospital/s, Equipments, Laboratory and clinical teaching-learning facilities including equipment as per the norms of the respective Regulatory Bodies.

Facilities as per the stipulations of the respective Regulatory Bodies

S.No	Name of the Faculty	Page No
1	Medical Facilities	1-24
2	Dental Facilities	25-35



Medical Equipments

S.No.	NAME OF THE ITEMS	No. Persent
(A)	General	
1	Table with marble or stainless steel tops with a minimum size of 6' \times 2' \times 3'	18
2	Tables with marble or stainless steel tops - half standard size	5
3	Drill machine	3
4	Hand saw, preferably metal	3
5	Band saw for sectioning body and limbs	1
6	Brain knife	3
7	Mortuary cooler with arrangement to keep 1 body	1
8	Storage tank to hold 10 cadavers, static/movable, durable tank with input and	3
9	Plastic tanks for storing soft and dissected parts	10
10	Multimedia Projector with screen	2
11	Trolley Table (Steel)	2
12	Movie camera with projection screen	1
13	Computer with internet connection, & video CD library	3
14	X-ray viewing lobby	4
15	X-Ray plates/MRI/CAT scan/USG	As required
16	Charts, Diagrams, Models, Slides etc.	As required
17	Dissecting instruments for cadaveric dissection	As required
18	Meat cutting machine for thin body sections (trans and vertical) for gross	1
19	Cadavers	15
20	Embalming Machine	1
(B)	Histology Laboratory	
21	Microscopes, Monocular	75
22	Dissection microscope	4
23	Microtomes, rotary (Optional)	1
24	Microtomes, Sledge, large cutting	1
25	Cabinet for slides (1000)	5
26	Incubators	1
27	Paraffin embedding bath	1
28	Hot plates for flattening sections	1
29	Hot air oven for drying slides (45 oC)	1
30	Refrigerators (Minimum 165 litres)	2
31	Marking pencils	As required
(C)	Museum	
32	Articulated Skeleton set	7
33	Bones (Dis-articulated) sets	30
34	Specimen Wet	150
35	Steel racks	As required
	Laptop	1
36 37	Desktop Computer, with Printer	3

PHYSIOLOGY

S.No.	NAME OF THE ITEMS	No. Persent
1	Sherrington Starling kymograph (electrically driven)	2
2	Myograph stand	2
3	Inductorium	2
4	Simple key	2
5	Short circuiting key	2
6	Pohl's commutator	2
7	Vibrating interrupter	2
8	Muscle trough	2

9	Muscle lever	2
10	Muscle grip of femur clamp	2
11	Hook and Weight set	2
12	Heart lever (simple & Starling)	2
13	Frog board for dissection	2
14	Enamel tray	2
15	Frog board cork lined with boss head	2
16	Low voltage unit for tapping 2 and 4 volts for stimulation	2
17	Electromagnetic time marker	2
18	Tuning fork time marker 100/sec	2
19	Electrodes	2
20	X-blocks	2
21	Spirit lamps	2
22	Marey's tambour	2
23	Microscopes, oil immersion	60+8
24	Demonstration eye piece	4
25	Double demonstration eye piece	4
26	Stage incubator	1 2
27	Westergren's pipette for E.S.R. on stand(with space pipette)	30
28	Wintrobe's pipette for ESR and PCV with stand	30
29	Perimeter Pristely Smith S/LP.984 B & T	15
30	Hemoglobin-meter Sahli's or Hellige (with spaces)	60
30 31		60
	Hemocytometer	
32	Sphygmomanometer (digital) (Mercury based instruments to be replaced	60
33	Stethoscopes	60
34	Stethoscopes, demonstration with multiple ear pieces	4
35	Polygraphs	1
36	Venous pressure apparatus	2
37	Spirometer, ordinary	20
38	Gas analysis apparatus, Halden's student type	1
39	Van Slyke's apparatus manometric	1
40	Gas analyser automatic for CO2, O2, N2	1
41	Douglas bag, complete	2
42	Basal metabolism apparatus	1
43	Mosso'sErgograph	10
44	Clinical thermometer (Mercury based instruments to be replaced with suitable	60
45	Compass aesthesiometer	20
46	Thermo-aesthesiometer	20
47	Algometer	20
48	Apparatus for passive movement	1
49	Knee hammer	40
50	Stethograph	20
51	Bicycle Ergometer	1
52	Olfactometer	1
53	Ophthalmoscope	1
54	Schematic eye	2
55	Phakoscope	1
56	Perimeter with charts (Lister's)	5
57	Color perception lantern Edridge green	2
58	Maddox rod	1
59	Newtons color wheel	1
60	Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 hz)	20
61	Dynamometer	2
62	Otorhinolaryngoscope	1
63	Sterilizer electrical	1

64	Instrument trolley	1
65	Stop watch	20
66	Multi channel Physiograph, 3 channels, complete with accessories	3
67	Student physiograph, (single channel) with accessories	8
68	Centrifuge, high speed with technometer	1
69	Colorimeter, photoelectric	1
70	pH meter electric	1
71	Refrigerator	1
72	Oxygen cylinder with trolley	1
73	CO2 cylinder with trolley	1
74	Electronic stimulator	1
75	Water distillation steel with spare heating elements	1
76	All glass distillation apparatus double stage	1
77	Voltage stabilizer	1
78	Thermometers, balances, microslides and glassware	As required
79	Digital Physiograph	2
80	Models and Charts	25 each
81	ECG Machine	3
82	Laptop	1
83	Desktop Computer, with Printer	3
84	Photocopier and Scanner	1
85	Multimedia Projector with screen	2
	Note: The animal experiments included in the curriculum should be	

BIOCHEMISTRY		
S.No.	NAME OF THE ITEMS	No. Persent
1	Analytical Balance : upto 200g/1gm increment	2
2	Urinometers calibrated (Mercury based instruments to be replaced with other	20
3	Hot air oven (More than 200 litres)	2
4	Digital Colorimeters	5
5	Student Microscopes	5
6	Glucometer with strips (For POCT)	2
7	Thermometer 0 – 250 degree Celsius (Mercury based instruments to be	5
8	Semi autoanalyser	2
9	Boiling Water baths	2
10	Constant temperature water bath Tank Capacity: (Temperature range 5 to 800	
11	Laboratory Reagent Refrigerators, capacity > 200 litres	3
12	Complete Chromatographic Unit for paper & TLC	2 each
13	Centrifuge clinical for ≥ 8 tubes	2
14	pH meters of wide range digital	5
15	Fixed volume pipettes 1ml,0.5ml,0.2ml,0.1ml and 0.02ml	5 (of each
		volume)
16	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)	1 each
17	Densitometer with computer	1
18	Bottle dispensers	20
19	All glass distillation apparatus	1
20	Vortex mixers	2
21	Incubator 37oC	2
22	Variable and fixed volume micro auto pipettes	As required
23	Glass ware & accessories	As required
24	Fume cupboard	1
25	Digital Analytical Balance	1
26	Balance Micro	1
27	Spectrophotometer	1
28	ELISA (Demonstration)	1
29	Laptop	1

30	Desktop Computer, with Printer	2
31	Photocopier and Scanner	1
32	Multimedia Projector with screen	2

PATHOLOGY

S.No.	NAME OF THE ITEMS	No. Persent
(A)	General	
1	Desktop Computers with High Speed Internet, Laser Black & White Heavy duty	As required
(B)	Morbid Histology and Morbid Anatomy	
2	Specimen Identification Solutions	1
3	Weighing machine for cadavers (300 Kg.)	1
4	Manual Rotary Microtome	2
5	Automated Rotary Microtome	1
6	Cryostat	1
7	Hot plate	2
8	Paraffin embedding bath	2
9	Heated Paraffin Embedding Module	2
10	Cold Plate for Modular Tissue Embedding System	1
11	Automated Tissue Processor -Histokinette	2
12	Autoclave	2
13	Ultrapure water solutions - Distilled water plant	1
14	Water bath	1
15	Centrifuge machine	5
16	Cabinet for slides	As required
17	Autopsy tables	Common with
10	Digital CLD at least 20 megapivel with micro, macro, wide angle acom leases	1
18	Digital SLR at least 20 megapixel with micro, macro, wide angle zoom lenses,	1
19	Digital Automatic camera > 5 megapixel	1
20	Fully Automated high throughput Multi-Stainer Workstation	1
21 22	Fully Automated Embedding System (Heated embedding module & cold plate) Fully Automated Flexible Coverslipping Workstation	1
22	, , , , , , , , , , , , , , , , , , , ,	
<u>25</u> 24	Standalone paraffin dispensing module cold plate holding more than 100 Stand alone cold plate	1
24		As required
25		As required
20		Astequiled
<u> </u>		As required
20		As required
28 29	Single Pan Digital Balance, Chemical	2
28 29	Single Pan Digital Balance, Chemical Balance, chemical with weights	
29	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes	2
29 30	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion	2 2 60
29 30 31	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright	2 2 60 1
29 30 31 32	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular	2 2 60 1 As required
29 30 31 32 33	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses.	2 2 60 1 As required As required
29 30 31 32 33 34	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses. Penta Head Microscope with High end Optics with HDMI Multi output	2 2 60 1 As required As required 1
29 30 31 32 33 34 35	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses. Penta Head Microscope with High end Optics with HDMI Multi output Deca Head Microscope with High end Optics with HDMI Multi output	2 2 60 1 As required As required 1 1
29 30 31 32 33 34 35 36	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses. Penta Head Microscope with High end Optics with HDMI Multi output Deca Head Microscope with High end Optics with HDMI Multi output Grossing Station - Stainless steel, with Control panel, air filtration system,	2 2 60 1 As required As required 1 1 1
29 30 31 32 33 34 35 36 37	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses. Penta Head Microscope with High end Optics with HDMI Multi output Deca Head Microscope with High end Optics with HDMI Multi output Grossing Station - Stainless steel, with Control panel, air filtration system, Fully Automated Immuno-histo-chemistry Setup with Continuous supply of	2 2 60 1 As required As required 1 1 1 1
29 30 31 32 33 34 35 36 37 38	Single Pan Digital Balance, Chemical Balance, chemical with weights Microscopes For Students - LED Binocular with Scanner, 10X, 40X, & Oil immersion For Diagnostic & Research Work - Trinocular head Microscope with Bright For every Professor, Associate & Assistant Professor : Binocular For every Tutor - Binocular Microscope with suitable high end lenses. Penta Head Microscope with High end Optics with HDMI Multi output Deca Head Microscope with High end Optics with HDMI Multi output Grossing Station - Stainless steel, with Control panel, air filtration system, Fully Automated Immuno-histo-chemistry Setup with Continuous supply of Automatic High Speed Slide Scanner for converting Slides in Digital Format	2 2 60 1 As required As required 1 1 1
29 30 31 32 33 34 35 36 37 38 (C)	Single Pan Digital Balance, ChemicalBalance, chemical with weightsMicroscopesFor Students - LED Binocular with Scanner, 10X, 40X, & Oil immersionFor Diagnostic & Research Work - Trinocular head Microscope with BrightFor every Professor, Associate & Assistant Professor : BinocularFor every Tutor - Binocular Microscope with suitable high end lenses.Penta Head Microscope with High end Optics with HDMI Multi outputDeca Head Microscope with High end Optics with HDMI Multi outputGrossing Station - Stainless steel, with Control panel, air filtration system,Fully Automated Immuno-histo-chemistry Setup with Continuous supply ofAutomatic High Speed Slide Scanner for converting Slides in Digital FormatHematology Lab:	2 2 60 1 As required As required 1 1 1 1 1 1 1
29 30 31 32 33 34 35 36 37 38 (C) 39	Single Pan Digital Balance, ChemicalBalance, chemical with weightsMicroscopesFor Students - LED Binocular with Scanner, 10X, 40X, & Oil immersionFor Diagnostic & Research Work - Trinocular head Microscope with BrightFor every Professor, Associate & Assistant Professor : BinocularFor every Tutor - Binocular Microscope with suitable high end lenses.Penta Head Microscope with High end Optics with HDMI Multi outputDeca Head Microscope with High end Optics with HDMI Multi outputGrossing Station - Stainless steel, with Control panel, air filtration system,Fully Automated Immuno-histo-chemistry Setup with Continuous supply ofAutomatic High Speed Slide Scanner for converting Slides in Digital FormatHematology Lab:Five part Fully Automated Cell Counter	2 2 60 1 As required As required 1 1 1 1 1 1 1 1 1
29 30 31 32 33 34 35 36 37 38 (C)	Single Pan Digital Balance, ChemicalBalance, chemical with weightsMicroscopesFor Students - LED Binocular with Scanner, 10X, 40X, & Oil immersionFor Diagnostic & Research Work - Trinocular head Microscope with BrightFor every Professor, Associate & Assistant Professor : BinocularFor every Tutor - Binocular Microscope with suitable high end lenses.Penta Head Microscope with High end Optics with HDMI Multi outputDeca Head Microscope with High end Optics with HDMI Multi outputGrossing Station - Stainless steel, with Control panel, air filtration system,Fully Automated Immuno-histo-chemistry Setup with Continuous supply ofAutomatic High Speed Slide Scanner for converting Slides in Digital FormatHematology Lab:	2 2 60 1 As required As required 1 1 1 1 1 1 1

	Note: Equipment must be of International specification & standards, regular	
82	Wet Specimens	150
81	Mounted Specimens	300
(E)	Specimens:	
80	Balances -Digital Single Pan Sensitive Chemical balance	As required
79	Reagents	As required
78	Dropping bottles	As required
77	Reagent bottles	As required
76	Pipettes of various sizes with disposal tips.	As required
75	Graduated cylinders for various capacities ranging from 100 cc to1000 cc.	As required
74	Centrifuge tubes graduated.	As required
73	Urinometers(Mercury based instruments to be replaced with other	As required
72	Automatic Hematology Slide Stainers.	As required
71	Staining jars for slides.	As required
70	Syringes disposable	As required
69	Haemacytometers with red and white pipettes	90
68	Incubator	2
67	PH meter	2
66	Sp. Gravity Measure	2
	Fluorescence for each Faculty/ resident working in lab plus 2 microscopes for	
65	Binocular Microscopes with high end optics including 100X & LED	As Mentioned
64	Automatic Urine Analyzer	2
63	Three Part Hematology Analyzer	2
62	Five Part Hematology Analyzer	1
(D)	Clinical Laboratory:	
61	Glassware, stains, chemicals reagents etc. for histological work.	As required
60	Surgical instruments.	5 Sets
59	Museum jars.	As required
58	LED Wireless Projector	3
57	Electrophoresis Set Up	1
56	pH Meter electric	5
55	Stop watch reading at 1/5 second.	5
54	Liver Biopsy needle	As required
53	Sternal puncture needle child size	As required
52	Sternal puncture needle adult size	As required
51	X-ray viewing box (LED)	2
50	Drill for boring glass	As required
49	Slide boxes for 100 slides for students	200
48	Saws, wire for cutting bones	As required
47	Balance for weighing organs	1
46	Automatic timer	5
45	Laboratory stirrer	As required
	Laboratory Counter	As required
44		

1
1

S.No.	NAME OF THE ITEMS	No. Persent
(A)	General	
1	Anaerobic apparatus	2
2	Autoclave	3
3	Balance Electronic Digital	2
4	Biosafety Cabinet Type - 2A	З
5	BOD Incubator	1
6	Centrifuge	4
7	CO2 Incubator/Candle Jar	2
8	Computer Unit	3

9	Deep Freeze -20° C & Deep Freezer	1 each
10	Distilled water Plant	1
11	Elisa Reader	2
12	Elisa Washer	2
13	Hot Air Oven	2
14	Incubator	3
15	Lab Refrigerator (minimum 400 litres)	4
16	Laminar flow	1
17	Micrometer eye pieces	2
18	Micrometer stage	2
19	Microscope Binocular (Students)	90
20	Microscope Binocular	Every Faculty
21	Microscope with universal condenser containing oil immersion, Bright field,	1
22 23	Multimedia Projector	2
	pH determination apparatus Serum inspissators	1
24 25	VDRL shaker	2
26	Vortex Mixer	2
20	Water bath with variable temperature	2
28	Oil-immersion lens for student microscope	50
29	Automated Blood Culture System	1
30	Colony Counter	1
(B)	Consumables for Culture and Serological Diagnosis	
31	Antibiotic Discs for Antibiotic susceptibility testing	As required
32	Antibiotic zone scale	As required
33	Antisera-Salmonella	As required
34	Antisera-Shigelladysenteriae	As required
35	Antisera-Shigellaflexnari	As required
36	Antisera-Shiegellasonnie	As required
37	Antisera-Vibrio cholerae	As required
38	ATCC strain - Enterococcus fecalis 29213	As required
39	ATCC strain - E.coli 25922	As required
40	ATCC strain - E.coli 35218	As required
41	ATCC strain - Pseudomonas aeruginosa 27853	As required
42	ATCC strain - Staphylococcus aureus 25923	As required
43	ATCC strain - Staphylococcus aureus 29213	As required
44	Bottles for blood culture	As required
45 46	Micropipettes - Multi channel & Single channel	As required
46 47	Materials for preparation of various Culture Media	As required
47 48	Materials required for various Microbiological Stains Digital Thermometers of different temperatures	As required
48 49	Various Kits for Serological diagnostics	As required As required
49 50	Laptop	1
50	Desktop Computer, with Printer	2
52	Photocopier and Scanner	1
	Note: All equipment must be calibrated and maintained	⊥
L	PHARMACOLOGY	

S.No.	NAME OF THE ITEMS	No. Persent
(A)	I. Clinical Pharmacy	
1	Special Drug Delivery systems like Metered Dose Inhalers, Spacers, Rotahalers,	15 sets
2	Samples of dosage formulations of various types including rational and	15 sets
3	Manikins for demonstration of intravenous injection, enema, local,	15 sets
(B)	II. Computer Assisted Learning Laboratory	
4	Minimum 1 computer per 10 students (Maybe shared with a similar facility in	Minimum 15
-+	the institution) Must have computers with standard configuration and	computers

(C)	III. Experimental Pharmacology	
5	For UG course, the facilities and equipment in the experimental lab can be	
(D)	IV. Clinical Pharmacology	
6	Stop watch	As required
7	Digital Sphygmomanometer	As required
8	Critical Flicker Fusion Apparatus	As required
9	Pupillometer	As required
10	Chart, Models and videos to illustrate the pharmacodynamic and	As required
(E)	V. General:	
11	Laptop	1
12	Desktop Computer, with Printer	2
13	Photocopier and Scanner	1
14	Multimedia Projector with Screen	2
SS		L
55	FORENSIC MEDICINE	
	NAME OF THE ITEMS	No. Persent
		No. Persent
	Teaching	-
1	Multimedia Projector , CPU & Projection Screen	2
2	Television, DVD Player	1
3	Digital SLR Camera With Accessories	1
4	Microscope Student Type	20
5	X-Ray View Box Two In One	6
6	Stop Watch	4
7	Anthropometric Set including	2
	A) Folding Metal Rod Upto 7 Ft	
	B) Osteometric Board	
	C) Craniometer	
	D) Mandibulometer	
	E) Goniometer	
	F) Vernier Calipers	
	G) Equipment for Reporting Height	
	H) Weighing Machine Dial Type Human	
8	Digital pH Meter	1
9	Digital Spectrophotometer	1
10	Chemical Balance	1
11	Distillation Plant	1
12	Refrigerator	2
13	Centrifuge	1
14	Slide Warming Table	2
15	Hot Plate	2
16	Glass Cutting Pencil	2
17	Spectroscopic Lens With Adjustable Slit	2
18	Dissection Set Complete	2
19	Digital BP Instrument	2
20	Stethoscope	2
21	Charts and Models	30 each
(B)	Research	
22	Binocular Research Type With Attachment For Camera	1
23	Deep Freezer For Keeping Tissue	1
24	Automatic Tissue Processing Machine	1
- •	Following can be shared with Central Research Lab:	-
25	Microtome With Knife	1
26	Paraffin Bath Embedding	1
20	Water Bath For Tissue Floatation	1
L/		⊥

28	L Modes	1
29	Block Holder	1
30	Abrasive Powder	1
31	Thin Layer Chromatograph	1
32	Gas Chromatograph	1
33	Ultra Violet Spectroscope	1
34	Infra Red Spectroscope	1
35	Mass Spectrometer	1
(C)	Medico legal work	
36	Cold Storage For Dead Bodies	8
37	Weighing Machine For Dead Bodies	1
38	Autopsy Tables	4
39	Stryker Type Autopsy Saw With Accessories	4
40	Weighing Machine For Organs	3
41	Weighing Machine For Fetus	2
42	Dissection Set Complete	4
43	Brain Knife	6
44	Hack Saw	3
45	Rib Shear Left & Right	2 Each
46	Measuring Tape(Steel Tape Roll)	4
47	Magnifying Lens	4
48	X- Ray View Box (4 In 1)	З
49	Tooth Extractor Left & Right	2
50	Hand Set Heat Sealer	1
51	Instrument Trolley	As required (3 minimum)
52	Stretchers for shifting dead bodies	As required (Minimum 3)
53	Rectal Thermometer	4
55	Portable X-ray Machine (can be shared with Radiology Department)	1
JT	Additional Equipment For Medico Legal Work For Each 500 Medico legal	L
55	Cold Storage For Dead Bodies	2
56	Autopsy Tables	2
57	Stryker Type Autopsy Saw With Accessories	1
58	Weighing Machine For Organs	1
59	Weighing Machine For Fetus	1
60	Dissection Set Complete	1
61	Brain Knife	2
62	Hack Saw	2
63	Rib Shear Left & Right	1 Each
64	Measuring Tape(Steel Roll)	2
65	Magnifying Lens	2
66	X- Ray View Box	1
(D)	Consumable for medico legal work	<u> </u>
68	Disposable Cap-Mask-Gown, Gloves Etc.	As required
<u>69</u>	Cotton Rolls, Suture Materials Etc.	As required
70	Formalin, Rectified Spirit,Lugol's Iodine	As required
70	Swabs, Preservative Bulbs etc.	As required
72	Viscera Bottles etc.	As required
73	Syringe (5, 10, 50 ml)	As required
74	Preservative Salts	As required
75	Packing and Sealing materials	As required
(E)	For Sexual Assault Examination [*]	
76		1
76 77	Victim examination table (Gynecological Examination table with leg stirrups)	_
11	Screen	As required

78	OT light Shadowless adjustable	1
79	Hymenoscope	2
		2
80	Colposcope	۷.
81	Sims Speculum	4
82	Cuscos Speculum	2
83	Sponge holding forceps	4
84	Toothed forceps	4
85	Ovum forceps	2
86	Proctoscope	4
87	Torch	1
	[*] Mandatory for the colleges where sexual assault examination done	
88	Desktop Computer	3
89	Laptop	1
90	Printer with Scanner	2 each
91	Photocopier machine	1

COMMUNITY MEDICINE

S.No.	NAME OF THE ITEMS	No. Required
5.NU.		No. Required
1	Barometer (Mercury based instruments to be replaced with other alternatives)	1
2	Filter, Pasteur Chamberland, complete set	1
3	Filter, Berke fed	1
4	Hydrometres, Spirit	3
5	Hydrometres, milk	3
6	Hydrometers, wet and dry bulb	3
7	Incubator, electric (can be procured from Microbiology)	1
8	Museum jars	As per the
		number of
		specimens
9	Models, charts, diagrams, specimen	Min: Models 80,
		Charts 50
10	Balance Analytical 200 gm.	2
11	Balance for weighing food stuff(Capacity 2 Kg).	3
12	Centrifuge clinical	1
13	Weighing machine adult	8
14	Baby weighing machine	3
15	Salters Baby weighing machine	4
16	Harpender Calipers (for skinfold thickness)	4
17	Height measuring stand	4
18	Refrigerator 9 cu.ft.	3 + Additional
		one each at
		RHTC and
		UHTC
19	Ice Lined Refrigerator (I.L.R.) (at Health Centre)	1
20	Dissecting microscope	40
21	Microscope oil immersion	3
22	T.V. and DVD player	4 each(2 at
		college and 2
		at Centres)
23	Autoclave (Can be shared with Pathology/Microbiology department)	1
24	Computer with printer, scanner and photocopier and Internet facility	5
25	Vehicles for transport of students/interns/faculty/ paramedical staff to the	2 Buses (32
	RHTC and UHTC	capacity) and
		one SUV

26	Multimedia Projector with Screen	2
27	Public Address system (2 portable for field based activities and one each for	4 Sets
28	Chloroscope	10
29	Horrock's Apparatus	3
30	MUAC tapes	10
31	Haemoglobinometer	5
32	BP Apparatus (Digital)	10
33	Stethoscope	10
34	Kata Thermometer	3
35	Globe Thermometer	3
36	Anemometer	4
37	Sound level meter	4
38	Soil testing kit	1
39	Water sampling bottle from any depth	1
40	Needle Shredder	3
41	Vaccine carrier	5
42	Craft water testing kit	1
43	Protective devices for occupational safety	3 sets
44	Ear muffs	As required
45	Ear plugs	As required
46	Safety helmet	As required
47	Goggles	As required
48	Safety boots	As required
49	Swine flu kit	As required
50	Gloves	As required
51	Triple layer surgical mask	As required
52	High efficiency mask	As required
53	Long sleeved cuffed gown	As required
54	Protective eye wear	As required
55	Сар	As required
56	Disposable delivery kit	As required
57	Treatment kits as per national health programs	3 each
58	lodine testing kit	10
59	Glucometer	10
60	Slide set for entomology	5
61	Mosquito catching kit	4
62	Clinical Thermometer	10
63	Sling psychrometer	3
64	Solar radiation thermometer	3
65	Treatment kits as per National Health Programs	4 each
66	lodine testing kit	10
67	Glucometer	10
68	Slide set for entomology	5
69	First Aid Kit	1
70	Spirometer	3
71	Audiometry	1
72	Otoscope	1
73	Ophthalmoscope	1
74	Laptop	1
75	Portable X-ray (Maybe shared with other departments)	1
76	ECG(Maybe shared with other departments)	1
	MEDICINE	·

S.No.	NAME OF THE ITEMS	No. Persent
1	B.P. Apparatus (Mercury containing instruments should be replaced by digital	40
2	Ophthalmoscope	10

3	Lumbar puncture needles (disposable)	As required
4	Pleural biopsy needles (disposable)	As required
5	Liver biopsy needles (disposable)	As required
6	Kidney biopsy needles (disposable)	As required
7	Bone marrow biopsy needles (disposable)	As required
8	Bone marrow aspiration needles (disposable)	As required
9	X-ray viewing box	18
10	Flexible Video End viewing Oesophago-Gastroduodenoscope (optional)	1
11	Flexible Video Colonoscope (optional)	1
12	Flexible Video Side viewing Gastroduodenoscope for ERCP (optional)	0
13	Proctoscope	8
14	Fiber optic bronchoscope (May be shared with TB&CD)	1
15	Spirometer	4
16	Bed side cardiac monitors	20
17	Central Cardiac monitor Console	1
18	Defibrillator	1 per unit + 1
10		each for
		MICU,ICCU and
		1 for casualty
		ward
19	Non-invasive B.P. Apparatus	20
20	Pulse oximeter	20
20	Equipment for Cardiac pacing	1
22	Ambu bag	14
23		14
	Laryngoscope	12
24	ECG machine	
25	Echocardiography machine	1 portable unit
26	Tread mill test machine	1
27	Hemodialysis machine	4
28	Peritoneal dialysis catheters	As required
29	Arterial blood gas analyzer	1
30	Glucometer	14
31	EMG and nerve conduction velocity machine	1
32	Fine needle aspiration needle	
33		As required
	Aspiration needle Endotracheal tubes	As required
34		As required
35	Invasive Mechanical Ventilator	8
36	Non Invasive mechanical ventilator (Maybe shared with TB and CD)	5
37	Nebulizer	14
38	Portable Suction Machine	2 with each
		ward, 1for
		MICU,
		1 for ICCU,
		1 for casualty
		ward, 1 for
		OPD
20		1
39	Infusion pumps	1 with each
		bed of MICU
		and ICCU plus
		/ unit
40	Weighing scale	2/unit + 2 in
		OPD

41	Multimedia Projector with Screen	2
42	Patient Examination table	6
43	Rubber Hammer	12
44	Computer	1/unit 1/MICU,
		1/ICCU,
		1/OPD
45	Torch	16
46	Emergency Lights	6
47	Upper GI endoscope (Optional)	3
48	Sigmoidoscope (optional)	3
49	Colonoscope (optional)	3
*50	*Haemocytometer	5
*51	*Light Microscope	3
*52	*Haemoglobinometer	5
*53	*Urinometer	3
	* Required where ward side laboratories are available	

PAEDIATRICS

S.No.	NAME OF THE ITEMS	No. Required
(A)	Resuscitation equipment:	
1	Ambu bag and Face mask - Neonate & infant	6
2	Ambu bag & Face mask - Children	4
3	Nasal prongs	As required
4	Nasal catheters	As required
5	Endotracheal tubes	As required
6	Suction apparatus	6
7	Suction catheters	As required
8	Laryngoscope - Infant	4
9	Laryngoscope - Children	4
(B)	Oxygen Delivery System-	
10	Oxygen Cylinder	6
11	Oxygen regulator	6
12	Oxygen Humidifiers	6
13	Oxygen head-box (of each size)	As required
14	Nebulizers	6
(C)	Drug Delivery Equipment/ Catheter/tube-	
15	Blood Transfusion Set	As required
16	Intra-venous (I.V.) Drip set	As required
17	Measure volume Set	As required
18	Intra-venous (I.V.) Cannula (Butterfly type)	As required
19	Intracath (different sizes)	As required
20	Umbilical vein Catheter	As required
21	Infant Feeding tubes	As required
22	Three way and four way valve	As required
(D)	Measurement Equipment	
	Digital Weighing machine	
23	- Infant	2
24	- Child	2
25	- Neonates	2
26	Infantometer	3
27	Stadiometer	4
28	Measuring tape	As required
29	Shakir's tape	As required

Digital Thermometer-Oral *(Mercury based instruments to be replaced with	As required
BP measuring Instrument with various cuff sizes - Digital (Only Non mercury	6
Work Lab and Investigations:	
Bone marrow needle	4
Lumbar Puncture (L.P.) Needles	4
Pleural aspiration needle	4
Vim-Silverman liver biopsy needle	4
True Cut Renal biopsy needle	4
X-ray view box	8
Miscellaneous	
Glucometer	3
Pulse Oximeter	6
CPAP machine*	3
Mechanical Ventilator (neonatal and child)	2+2
Radiant Warmer	8
Phototherapy unit	6
Ophthalmoscope	3
Pleural Fluid Collection Bag	As required
Urine Collection Bag	As required
LED phototherapy unit	3
Multimedia Projector with Screen	1
Laptop	1
Note: CPAP machine, Mechanical Ventilator, Radiant Warmer, Phototherapy	
Oxygen supply should be from central pipeline through manifold gas supply	
	BP measuring Instrument with various cuff sizes - Digital (Only Non mercury Work Lab and Investigations: Bone marrow needle Lumbar Puncture (L.P.) Needles Pleural aspiration needle Vim-Silverman liver biopsy needle True Cut Renal biopsy needle X-ray view box Miscellaneous Glucometer Pulse Oximeter CPAP machine* Mechanical Ventilator (neonatal and child) Radiant Warmer Phototherapy unit Ophthalmoscope Pleural Fluid Collection Bag LED phototherapy unit Multimedia Projector with Screen Laptop Note: CPAP machine, Mechanical Ventilator, Radiant Warmer, Phototherapy

TUBERCULOSIS & CHEST DISEASES

eak flow meters ebulizers tercostal Drainage Facility	6 8
	8
tercostal Drainage Facility	
	6
eural Biopsy Needles	4
ulse Oximeter	8
ber optic Bronchoscope	2
gid Bronchoscope	1
Ilmonary function Test machine with facility for spirometry, lung volume	1
P Instrument (Mercury based instruments to be replaced with suitable	8
eighing Scale	2
on Invasive Mechanical Ventilator	8
eight Scale	2
	1
	id Bronchoscope Imonary function Test machine with facility for spirometry, lung volume Instrument (Mercury based instruments to be replaced with suitable ighing Scale

DERMATOLOGY, VENEROLOGY & LEPROSY S.No. NAME OF THE ITEMS No. Required Hyfrecator/ Electrosurgical instrument 1 1 Cryotherapy with liquid Nitrogen 1 2 lontophoresis machine 3 1 Facilities for examining smears for bacteria, fungi, mycobacteria and 4 2 (a) Light microscope 5 (b) Giemsa stain As required (c) KOH smear 6 As required 7 Wood's lamp 1 Multi media Projector with Screen 8 1

PSYCHIATRY

S.No.	NAME OF THE ITEMS	No. Required

(A)	General	
1	Electro Convulsive Therapy (E.C.T.) machine preferably with ECG & EEG	1
2	EEG Machine (may be shared with medicine department)	1
3	ECT machine without monitor	2
4	EEG machine (may be shared with medicine/neurology department)	1
5	Lithium analyzer (may be shared with clinical pathology department)	1
6	Bio feed-back instruments (sets)	1
7	Thin layer chromatography (for drug dependence treatment) (may be shared	1
8	Alcohol breath analyzer	1
(B)	Psychological Tests equipment	
9	a) Projective tests	3
10	b) Intelligence Tests	3
11	c) Personality Tests	3
12	d) Neuro psychological tests	3
13	Multi media Projector with Screen	1
	Note: ECT treatment room to be equipped with the basic anesthesia machine	

SURGERY

	SURGERY	. .
S.No.	NAME OF THE ITEMS	No. Persent
(A)	OPD	
1	Digital/Electronic BP Apparatus, Weighing Machine, Stethoscope, Height scale	6 each
2	X ray viewing box 4 in 1	6
3	Proctoscope	10
(B)	Minor O.T.	2
4	Operation Theatre Table	2
5	Operation Theatre Ceiling light	2
6	Pedestal lights	4
7	Electro-surgical cautery unit	4
8	Suction	4
9	Pulse oximeter	2
10	Anesthesia Equipment	1 set
11	Resuscitation kit	1
12	Assorted surgical instrument for minor operation sets	12
13	Autoclave	1
(C)	Wards	
14	Digital/Electronic BP Apparatus, Stethoscope	20 each
15	Weighing Machine, Height scale	10 each
16	Proctoscope	10
17	Non invasive Multi Para Monitors	5
18	ECG machines	5
(D)	Operation Theatre	
19	CC Camera for Student demonstration for OT	9
20	Operation Theatre Table	9
21	Operation Theatre Ceiling light	9
22	Pedestal lights	9
23	Electro-surgical cautery unit	15
24	Suction machine	9
25	Pulse oximeter	9
26	Anesthesia Equipment(as per requirement of Dept)	9 sets
27	General Sets including open Urological surgery (4 for each Operation Theatre)	36
28	Pediatric surgical instrument set	2
29	Burr hole set with electric craniotome	2
30	Vascular set	2
31	Diagnostic and Operative laparoscope including one High Definition with all	2
32	Cystoscope&Resectoscope	1

33	Flexible Video Colonoscope	1
34	Flexible Video Side viewing Gastroduodenoscope for ERCP	1
35	Flexible Video End viewing Oesophago-Gastroduodenoscope	1
36	Flexible Video Sigmoidoscope	1
37	Flexible Video Bronchoscope	1
38	C-arm image intensifier	1
39	Operative ultrasound	1
40	Harmonic Scalpel	2
41	Assorted Open & Laparoscopic Stapling devices	2 sets
42	Multimedia Projector with Screen	2
	Note: All the surgical wards should have wall mounted suction lines along	
	ORTHOPAEDICS	

	URTHUPAEDICS	
S.No.	NAME OF THE ITEMS	No. Persent
1	General instrumentation set for fracture reduction	8 sets
2	Set for Hip Replacement	1
3	Set for knee replacement	1
4	Interlock nailing sets	1 each
5	Specific fixation sets (Proximal Humerus, Distal humerus, Intertrochanter,	1
6	Small Fragment and large fragment	4
7	External Fixator	8
8	Fracture reduction OT tables	1
9	Simple OT tables	2
10	Cautery machines	1
11	Pneumatic drill and reamer	1
12	Electrical drill and reamer set	1
13	Laminar airflow system in OT (for OT - where joint replacement surgeries are	As mentioned
	carried out)	
14	C-Arm (Image Intensifier)	1
15	Portable X-ray Machine	1
16	Arthroscope	1
17	Multimedia Projector	1
18	Plaster room equipment (sets) with plastic table.	2
19	Physiotherapy and occupational Therapy equipment sets	As required
20	Movie Camera for demonstration of live operations	1
	Note: All the orthopaedic wards should have wall mounted suction lines	
	The OPD should have -	
21	Plaster tables	2
22	Electric plaster cutter	4
23	Reflex hammer	10
24	Measure tape	20
25	Goniometer	10

OPHTHALMOLOGY

S.No.	NAME OF THE ITEMS	No. Persent
(A)	0.P.D.	
1	Snellen Chart/Snellen drum with or without remote control	4
2	Trial set with trial frame both for adult and children	4
3	Automated Perimeter	1
4	Color vision chart -Original Ishihara	3
5	Near vision chart with different languages	4
6	Torch	As required
7	Ophthalmoscope (Direct)	4
8	Streak Retinoscope	4
9	Indirect Ophthalmoscope	3
10	Slit lamp	3
11	Applanation tonometer	3

12	Keratometer	1
13	Synoptophore	1
14	Maddox Rod	1
15	Maddox Wing	1
16	Diplopia goggles	1
17	Gonioscope	2
18	Placido disc	1
19	Prism Bar	1
20	Schiotz's tonometer	4
(B)	Major Operation Theatre	
21	Operating microscope with TV Unit with camera	2
22	Cryo Unit	1
23	Cataract set	6
24	Glaucoma set	3
25	DCT/ DCRR set	2
26	Entropion set	3
27	Enucleation set	5
28	Evisceration set	2
29	Squint set	3
(C)	General Ophthalmic Equipment	
30	Operation Theatre Table	2
31	Operation Theatre Light	2
(C)	Minor Operation Theatre: Minor O.T. should have the equipment for the	
(D)	Wards:	
32	Slit lamp	2
33	Snellen chart/Snellen drum with or without remote control	1
34	Trial set with trial frame both for adult and children	1
35	Near vision chart with different languages	1
36	Torch	As required
37	Ophthalmoscope	1
38	Indirect Ophthalmoscope	1
39	Multi media Projector with Screen	1
	Note:	
	Wards should have wall mounted suction lines along with piped wall mounted	
	Wards should have resuscitation equipment like laryngoscope, all size	
	Operation theatres should have wall / dongle mounted suction lines along	
	Operation theatres should have resuscitation equipment like Anesthesia	
-		

OTORHINOLARYNGOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	OPD	
1	Sterilizer	1
2	Cidex instrument sterilization tray	2
3	Digital /Electronic BP Apparatus	1
4	Stethoscope	2
	X-ray view box in all OPD rooms 5 sets each consisting of :	
5	Thudicum/St.Clair Thomson Nasal Speculum different sizes	4
6	Lac's Tongue depressor different sizes	4
7	Laryngeal mirrors different sizes	4
8	Nasopharyngeal mirrors different sizes	4
9	Aural speculum different sizes	4
10	Ear Suction different sizes	2
11	Nasal Suction different sizes	2
12	Suction apparatus	1

13	Siegel's speculum	1
14	Tuning fork (512 Hz)	1
15	Tuning fork (256 Hz)	1
16	Tuning fork (1024 Hz)	1
17	Otoscope with halogen bulb, rechargeable battery and Siegle attachment	1
18	Bayonet forceps	2
19	Bulls lamp	1
20	Head Mirror	1
21	Head Light With LED/Halogen lamp	1
22	Jobson Horne probe	2
23	Instrument tray	1
24	Kidney tray	2
25	The OPDs should have Otoendoscope, Nasalendoscope, Laryngeal telescope	As mentioned
	with camera, monitor and light source for teaching purposes (1 Unit of the	
26	Optional- One treatment unit may be placed in the Consultant Chamber in the	As mentioned
	OPD which will facilitate and replace the instruments required in that room for	
(B)	Ward	
27	Four sets consisting of the instruments required in the OPD should be kept in	As mentioned
	the ward for teaching purposes and for examination time.	
28	One mobile spotlight, One Tracheostomy set should be placed in the ward.	As mentioned
29	The ward side room/emergency treatment room should have a mobile	As mentioned
	spotlight.	
(C)	Major Operation Theatre.	
\ - /	The OTs should be equipped with the requisite equipment for anaesthesia,	
	(a) Tonsillectomy and adenoidectomy set - 2 sets, each consisting of	
30	Biopod	1
31	Boyle-Davis mouth gag with difference size blades	1
32	Tonsil holding forceps	1
33	Tonsil dissector and pillar retractor	1
34	Waugh's tenaculum forceps: plain and tooth	2
35	Tonsil snare	1
36	Burkit artery forceps	1
37	Wilson's double curved artery forceps	1
38	Negus artery forceps	1
39	Tonsil scissors	1
40	Adenotome	1 (optional)
41	Adenoid curette with and without cage	2
42	Yankaueroropharyngeal suction (disposable)	1
	(b) Set for nasal bone fracture	
43	Asch forceps	1
44	Walsham forceps	1
45	St.Vlair Thompson Nasal Speculum	1
46	Killian Long bladed Nasal speculum	1
	(c) Septoplasty set	
47	Nasal dressing forceps	1
48	Knife handle	1
49	Killian's nasal speculum	1
49	Freer elevator	1
50		1
50 51	Howarth elevator	1
50 51 52	Howarth elevator Cottle elevator	1 1 1
50 51 52 53	Howarth elevator Cottle elevator Sickle knife	1 1
50 51 52	Howarth elevator Cottle elevator	1

57	Fish tail (bayonet shape) gouge	2
58	Nasal mallet	1
	(d) FESS set	
59	Rigid nasal endoscope 0 degree,4 mm and 2.7 mm size	1 each
60	Rigid nasal endoscope 30 degree, 4 mm and 2.7 mm size	1 each
61	Light source and light cable	1
62	Endoscopic Camera with suitable display with recording & archiving facility.	1
63	Sickle knife	1
64	Retrograde punch	1
65	Blakesley forceps - straight 1 and upturn	1
66	Nasal suction cannula different sizes	4
67	Double curved suction cannula different sizes	4
68	Sinus probe and curette	1
69	Lacrimal probes for endoscopic DCR (optional)	1
70	General Fess Instruments	1
	(e) Direct laryngoscopy set	
71	Anterior commissure laryngoscope for adult and pediatric sizes	2
72	Laryngoscope for adult and pediatric sizes	2
73	Negus laryngoscope	2 (optional)
74	Light source	1
75	Light cable	1
76	Biopsy forceps	2
77	Foreign body removal forceps	2
78	Laryngeal suctions	2
	(g)Microlaryngoscopy set	
79	Kleinsasser's laryngoscope	2
80	Fibreoptic lighting system	2
81	Suspension system for Laryngoscope	2
82	Microlaryngeal cup forceps	2
83	Microlaryngeal Scissors	2
	(h) Tympanoplasty set	
84	Graft knife	1
85	Graft scissors	1
86	Graft press	1
87	Aural speculum	4
88	Rosen first incision knife	1
89	Curette	2
90	Drum elevator	1
91	Blunt elevator	1
92	Sickle knife	1
93	Ball probe	1
94	Micro suction Cannula with thumb adaptor	4
95	Ear granulation forceps straight, up turn and side turn	3
96	Graft forceps	1
	(i) Mastoidectomy set	
97	Mallet	2 (optional)
98	Gouge (different sizes)	4 (optional)
99	Knife handle	1
100	Mosquito artery forceps	4
101	Cat's paw retractor	2
102	Endaural retractor/post aural retractor for right and left ear	2
103	Electric drill (motor, hand piece and burrs)	2 sets
104	Mastoid seeker	2
105	Aditus seeker	2
106	Malleus head nipper	2

107	Suction cannula with adapter for thumb control	4
108	Ear granulation forceps straight, up turn and side turn	3
	(j)Stapedectomy set	
109	Pick-straight	2
110	70 Angled	2
111	Perforator	2
112	Measuring rod	2
113	Prosthesis crimper	2
	(k) Oesophagoscopy set	
114	Oesophagoscopes sizes for different age group	3
$\frac{117}{115}$	Light source and cable	1
$\frac{115}{116}$	Biopsy forceps	3
<u>110</u> 117	Foreign body removal forceps	3
118	Suction cannula	3
110		
119	Oesophageal dilators	T Set
1 2 0	(I) Bronchoscopy set	
120	Bronchoscopes different sizes for different age groups	3
121	Light source and cable	1
122	Biopsy forceps	3
123	Foreign body removal forceps	3
124	Peanut forceps	3
125	Suction cannula	3
	(m) Tracheostomy set	
126	Needle holder	1
127	Bard Parker knife handle	1
128	Ribbon right angled retractors	2
129	Curved arteries	4
130	Straight arteries	1
131	Cricoid hook	1
132	Tracheal dilator	1
	(n) Excision Biopsy Set	
133	Doyen mouth gag	1
134		1
135	Knife handle	2
136	Adson's tissue holding forceps toothed	2
<u>130</u> 137	Adson's tissue holding forceps plain	2
138	Mayo scissors different sizes	3
139	Mosquito curved artery forceps	6
140	Curved artery forceps	6
$\frac{140}{141}$	Ellis tissue forceps	4
141 142		2
142 143	Babcock tissue forceps	2
	Cat's paw retractors	
144	Right angle retractors	2
145	Skin hook single	2
146	Skin hooks double	2
147	Needle holder different sizes	3
148	Thread cutting scissors	1
	Minor Operation Theatre	
	(a) Direct laryngoscope set	
149	Laryngoscope - Anterior Commissure	1
150	Negus	1
151	Lighting system	1
152	Biopsy forceps	1
153	Foreign body removal forceps	1

	(b) Micro ear examination set	2
154	Aural speculum	4
155	Suction cannula	4
156	Aural cup forceps	2
	(c) Nasal packing set	2
157	St Clair Thompson nasal speculum different sizes	4
158	Nasal packing forceps	1
159	Nasal suction cannula	4
	(d) Nasal endoscopy trolley with 0 degree & 30 degree 4mm endoscope	1
	(e) Others	
160	Higginson syringe	2
161	Sterilizer	As required
162	Aural Syringe	As required
163	Tracheostomy set	As required
164	Intubation set	As required
165	Bowls, kidney treys, towel clips, sponge holding forceps and Cheatle forceps	As required
(E)	Miscellaneous Equipment	
166	Operating microscope for major Operation Theatre (with camera attachment &	1
167	Electrocautery Unit	1
168	Spot Mobile Light	1
169	Basic OT table	1
170	Operating microscope for minor Operation Theatre	1
171	Puretone audiometer	As required
172	Brainstem evoked response audiometer with ASSR	As required
173	OAE Impedance audiometer (With sound treated air-conditioned room for	As required
174	Multimedia Projector with Screen	1
174	Teaching models/simulators as a part of the college CAL lab to teach	1
(F)	Teaching models/simulators as a part of the college CAL lab to teach Additional Equipment	1
(F) 175	Teaching models/simulators as a part of the college CAL lab to teach	1
(F)	Teaching models/simulators as a part of the college CAL lab to teach Additional Equipment	
(F) 175	Teaching models/simulators as a part of the college CAL lab to teachAdditional EquipmentFlexiblenasopharyngolaryngoscope	 1 1 1

OBSTETRICS & GYNAECOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Speculums and retractors	100
2	EA + ECC sets	12
3	Cytology bottle	10
4	Microscope	2
5	MR Syringes	7
6	Colposcope	1
7	Cryo/electro cautery apparatus	1
8	Simple fetal Doppler	2
9	NST machine	2
10	Stitch removal sets	7
11	Dressing sets	7
12	Ultrasound machine	1
13	Weighing machine	3
14	Height scale	2
15	View box	1
16	Digital/ Electronic Blood Pressure apparatus, measuring tapes, gloves,	6
17	Resuscitation tray (Laryngoscope, ET tube, Ambu bag, suction catheter)	2
18	Suction machine	2

19	Hysterosalphigogram Cannula	3
20	PCT forceps	5
21	Ayer's spatula	40
(B)	Main Operation Theatre	
22	Abdominal Hysterectomy set (Artery forceps, scissors, scalpel, Allis's kelly's	4
23	Vaginal Hysterectomy set	3
24	Scalpel, scissors, metal catheter, Sim's, Speculum volsellum, Kelly's clamps,	3
25	Tuboplasty set	1
26	Myomectomy instruments (Myoma screw, Boney's clamp)	1
27	Diagnostic laparoscopy set	1
28	Operating laparoscopy set including one with HD with all accessories & hand	1
29	Laparocator for tubal ligation	1
30	Operative Hysteroscopy set	1
31	Electronic Carbondioxideinsuffator/ Insuffator basic unit	2
32	Resectoscope	1
33	Hysteromat	1
34	Operative microscope	1
35	Electrocautery	3
(C)	Labour Room	
36	Delivery sets	20
37	Digital/ Electronic B.P. Apparatus	4
38	Weighing machine	1
39	Fetal Doppler	1
40	Cardiotocogram machine	2
41	Portable ultrasound	1
42	High suction machine	2
43	Resuscitation tray	2
(D)	Special Equipment	
44	Oxytocin infusion pumps	2
45	Multichannel monitors	4
(E)	Teaching Set	
46	Doll and Dummy	1
47	Female Pelvis	1
48	Gross specimens	10
49	X-ray/US films	5
50	View box	1
51	Multimedia Projector with Screen	1
52	Set of instruments for teaching purpose	1
(F)	Minor Operation Theatre	
53	Cervical biopsy set	2
54	MTP set	3
55	D&C set	3
56	IUCD insertion/removal set	5
57	High suction machine	2
58	Resuscitation tray	1
59	E.B. set	3
60	Operation Theatre table, Operation Theatre lights, Central O2 and suction	As required
(G)	Maternity Operation Theatre	
	Set for LSCS	12
61		
62	D&C set	3
62 63	D&C set MTP set	3
62 63 64	D&C set MTP set High suction machine	3 2
62 63	D&C set MTP set	3

67	Abdominal hysterectomy set	1
68	Diagnostic laparoscopy set	1
69	Postpartum ligation	2
70	Outlet forceps	1
71	Low mid cavity forceps/Keilland forceps	1
72	Vacuum Extractor and suction machine	1
73	Resuscitation tray	1
74	Infusion Pump	1
75	EB set	2
76	Laparocator for tubal ligation	1
77	Operation Theatre table, Operation Theatre lights, Central O2 and suction	As required
(H)	Wards	
78	Blood Pressure Apparatus (Digital/Electronic)	4
79	Weighing machine	1
80	Height scale	1
81	Speculum and retractors	30
82	Glucometer	1
83	Microscope	1
84	Suture removal sets	8
85	Dressing sets	5
86	Ultrasound	1
87	Cutdown sets	1
88	CTG machine	1
89	Suction machine	2
90	Resuscitation tray	2
91	X ray View box	1
92	Central O2 and suction	As required
(I)	Special Equipment	
93	Ultrasound machine with Doppler/Vaginal probe/facilities for Interventional	1
94	Oxytocin infusion pumps	2
95	Multichannel Monitor with ECG, BP, HR, Pulse oximeter for high risk pregnant	3
96	Fetal Monitor for Antepartum Surveillance	3
97	Multimedia Projector with Screen	2

ANAESTHESIOLOGY

S.No.	NAME OF THE ITEMS	No. Persent
(A)	OPD Anesthesia Clinic	
1	Patient examination table	3
2	Blood Pressure Instrument (Non-invasive)	3
3	Height Measurement Scale	3
4	Weighing machine	3
(B)	Operation Theatre	
5	Anesthesia machine and accessories like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps,	One set for EACH operation table
6	Multipara monitor- with P, NIBP, ECG facility,SpO2	One set for EACH operation table
7	Electrical Suction apparatus	One set for EACH operation table

8	LMA / PLMA of all sizes	One set for
8	LMA / PLMA OT All SIZES	
		EACH
		operation table
9	Spinal epidural set	One set for
		EACH
		operation table
10	EtCO2 monitor	One for 5
		operation
		tables
11	Defibrillator	One for 5
		operation
		tables
12	Mechanical ventilator Separate or with anesthesia machine	One for 5
		operation
		tables
13	Fibre optic bronchoscope	1
14	USG machine (Desirable)	1
15	PNS (Desirable)	1
16	Resuscitation equipment (CPR)- Ambu bag with face mask	2set
17	a) Adult Manikin	3
18	b) Pediatric Manikin	3
19	Multimedia Projector with screen	2
20	Computer with Printer & Scanner	2
21	Photocopier	1
22	High definition TV	1
(C)	Postoperative Recovery Room	
23	Oxygen therapy unit	8
24	Blood Pressure Monitor (digital/Electronic)	8
25	Pulse oximeter	8
26	E.C.G. Monitor	8
27	Suction Machine	8
28	Provision for resuscitation equipment and CPR Algorithms	1
29	Airway crash cart	1
30	All way clash cart ABG machine (Optional)	1
30	Side lab for emergency investigations (Optional)	1
32	TOF monitor (PNS) (Optional)	1
	Pain Clinic	⊥
(D) 33		
	Radio frequency ablation machine	2
34	Fluoroscopy machine (e-ARM)(may be shared with other department)	2
35	Ultrasound machine	1
36	Patients controlled analgesia system (portable)	1
37	Styleted Epidural catheter	10
38	Rac's catheters	As required
39	Intrathecal infusion pumps	As required
40	Pain assessment chart	4
41	OT Table fluoroscopy compatible	2
42	Nerve locator	1
43	Computer	2
44	Anodyne Machine (Optional) (For diabetic foot care)	2
45	Transcutaneous Electric Nerve Stimulating Machine (optional)	1
46	Anesthetic machine with resuscitation equipment	2
47	Crash cart	2
48	Monitors for vital signs (NIBP, P.R, ECG, SPO2, Temperature, R.R)	2

49	Nerve stimulator	2
50	18 G epidural needle	4
51	Multimedia Projector with screen	1

RADIO-DIAGNOSIS

S.No.	NAME OF THE ITEMS	No. Persent
(A)	General	
1	Conventional X-ray Unit for routine X ray 300 mA, 500mA, 800mA (with IITV) -	2+2+1
	1 each	Total - 5
2	CR system	2
З.	DR System	-
(B)	Mobile X-ray units	
3	a) 60 mA	3
4	b) 100mA	3
5	Ultrasonography equipment and color Doppler (Additional unit independently	3+1
6	CT (16 slice).	1
7	Mammography (Preferably).	1
8	MRI (Preferably).	1
9	Multimedia Projector with Screen	1
	Note: The department should have resuscitation equipment like	

OTHER DEPARTMENTS MEDICAL EDUCATION UNIT

S.No.	NAME OF THE ITEM	No. Persent
1	Multimedia Projector	1
2	Projection Screen	1
3	Computer with printer and scanner	2
4	Video Camera	1
5	Television	1
6	Blackboard	2
7	Photocopier	1
8	Flip Charts with accessories	2
9	Soft Board	2
10	White Board with accessories	2
11	Laptop	1
12	Dedicated Internet facility	
13	Public Address system with wireless collar and hand microphones	1
14	Cupboards and display cabinets for books	As required
15	Books and Journals	As required

DENTAL EQUIPMENT'S

MAJOR EQUIPMENTS

DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

Name	Specification	Required
		34
Semi adjustable articulator	With face bow	4
Extra oral/intra oral tracer		4
Dewaxing unit		2
Curing unit		2
Dental casting machine		1
Wax burnout furnace		1
Pre heating furnace		1
Surveying unit		2
Heavy duty hand piece	Lab micromotors	4 2
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	
Needle burner with syringe cutter		2
CAD CAM		1(Optional)
LAB		
Plaster Dispenser	One each for plaster and stone plaster	2
Model Trimmer with Carborandum Disc		1
Model Trimmer with Diamond Disc		2
Acrylizer		3
Lathe		2
Flask press		4
Deflasking unit		4
Dewaxing unit		3
Hydraulic Press		3
Mechanical Press		2
Vacuum mixing machine		1
Curing pressure pot		1
Hot water sterilizer	Compound bath	2
Geyser		2
Phantom heads		50
Pre-clinical working tables	Gas connection & bunson burner	100

CERAMIC AND CAST PARTIAL LABORATORY

NAME	SPECIFICATIONS	Required
Plaster Dispensor	One each for plaster and stone plaster	2
Duplicator		1
Pindex System		1
Circular saw		1
Burn out furnace		1
Sandblasting machine	With two containers	1
Electro-polisher		1
Model Trimmer with Carborandum disc		1
Model Trimmer with Diamond disc		1
Induction casting machine		1
Programmable porcelain furnace with vacuum pump with instrument kit and material kit		1
Spot welder with soldering, attachment of cable		1
Vacuum mixing machine		1
Steam Cleaner		1
Spindle Grinder 24,000 RPM with vacuum suction		1
Wax heater		1
Wax carver		1
Curing pressure pot		1
Milling machine		1
Heavy duty lathe with suction		1
Preheating furnace		1
Palatal trimmer		1
Ultrasonic cleaner	5 liters capacity	1
Composite curing unit		1
Micro surveyor		1
PRE-CLINICAL PROSTHETICS LABORATORY	Work table preferably complete stainless steel fitted with light, Bunsen burner, air blower, working stool.	60 20
	Adequate number of lab micro motor with attached hand piece	

PLASTER ROOM FOR PRE-CLINICAL WORK		
Plaster dispenser	One	2
	each	
	for	
	plaster	
	and	

	stone plaster	
Vibrator		2
Lathe		2
Model Trimmer		1
Carborandum Disc		1
Diamond disc		1

DEPARTMENT : CONSERVATIVE DENTISTRY AND ENDODONTICS

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification	34
Rubber dam kits		6
Restorative instruments kits		10
R.C.T. instrument kits		10
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket	2
Needle burner with syringe cutter		4
Amalgamator	With Autoclave proportion, Autoclave dispenser	3
Pulp Tester-Digital		4
Apex Locator		2
Glass bead sterilizers		6
Plaster dispensers		2
Vibrator		2
Intra-oral X-ray Unit	Proper radiation safety	1
Automatic Developer		1
Radiovisiography	RVG with Computer	1
Endo motor	With torque control Hps	3
Bleaching unit		1
Magnification loops		2
Injectable gutta percha		3
CAD CAM		1(Optional)

PHANTOM LAB UNIT	Phantom Table fitted with	60
	Halogen Operating Light	
	Phantom Head body type	
	neck joint for all the	
	movement, TMJ movement.	
	Modular with Air rotor, Micro	
	motor with contra angle Hps,	

3-way syringe, jaw with ivorine teeth, preferably soft gingival, dental operator's stool (not to use extracted or	
<u>cadaver teeth).</u>	

CLINICAL LABORATORY

Plaster Dispenser	One each for plaster and stone plaster	2
Model Trimmer	Carborandum disc	1
	Diamond disc	1
Lathe	Heavy Duty	2
Lab Micromotor	With heavy duty handpiece	3
Ultrasonic cleaner	Minimum capacity 5 liters	1
Spindle Grinder		1
Vibrator		2
Burnout furnace		1
Porcelain furnace		1
Sandblasting Machine		1
Lab Airrotor		1
Pindex System		1
Circular saw		1
Vacuum mixer		1
Pneumatic chisel		1
Casting machine	Motor cast/induction casting preferred	1
Ceramic Unit		1

DEPARTMENT : ORAL PATHOLOGY AND ORAL MICROBIOLOGY

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	2
Slides		100
Slides Boxes		4
Microscopes		50
Microtome		1
Wax bath		1
Water bath		1
Knife sharpner		1
Hot plate		1
Spencer knife		1
Adequate slides projection system		1

DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

A) EXODONTIA

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification	25
Autoclaves	Front loading Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	4
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket	2
Needle burner with syringe cutter		8
Extraction forceps sets	Complete set	20
Dental elevators	Complete set	10
Minor Oral surgery kits		6
Emergency drugs tray		2
X-ray viewers		2
Pulse Oxymeter		2
BP appartus		2
Stethoscope		2
Thermometer		2
Glucometer		1
Oxygen cylinder		2
Oxygen mask adult		2
Oxygen mask Pedo		2
Impaction kit		3
Lab micromotor with handpiece		3
Trauma kit		1
High volume suction		2
Surgical straight hand piece		4

B) MINOR SURGERY

Dental Chairs and Units	As per specification	5

DEPARTMENT : PERIODONTOLOGY

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	Atleast 50% of the units should have the Ultrasonic scaler with high volume suction.	34
	Note: Atleast 25% of the units should have the Airpolisher.	
Surgical instrument sets		6
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket	2
Electro surgical cautery		1
Needle burner with syringe cutter		4
Laser	Soft tissue laser	1
Physio dispenser with implant kit		1
X-ray Viewer (Extra Oral)		2
Hand scaler Supra gingival	Set of 8	10
Hand scaler Sub gingival	Set of 6	10
Set of curettes	Set of 12	2
Electro cauttery Kit		1
Periodontal Surgical Kit		3

DEPARTMENT : ORTHODONTICS

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification	18
Unit mount scaler		5
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2

ORTHO LAB		
Plaster dispenser	One each for plaster and stone plaster	2
Vibrator		2
Model Trimmer		2
Micromotor -	heavy duty	4
Lathe		2
X-ray viewers		2
OPG with cephalostat	If available in radiology its is adequate.	1
Welders		4
Blue Torch		1
Base Formers		4
Typodont		4
Set of Pliers		10
Welder with soldering attachments		1
Hydro solder		1
Typhodont articulator	With metal teeth wax rim of Class I, II, III	4
Pressure moulding machine		1
Soldering torch		1
Spot Welder		1

DEPARTMENT : PAEDIATRIC AND PREVENTIVE DENTISTRY

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification (Pedo chair preferred with micro head hand pieces)	20
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2
Needle Burner with		3
syringe cutter		
Amalgamator		1
Pulp Tester-Digital		1
Rubber dam kit for		5
pedo		
Apex locator		1
Endo motor	With torque control HPs	1
Injectable gutta		1
percha with		
condensation		

Radiovisiography	Digital intra X-ray system with pedo	1
	sensor and software	
Intra Oral Camera	With high resolution	1
Scaling instruments		10
Restorative		10
instruments		
Extraction forceps	Pedo Forceps complete sets	10
Intra-oral X-ray		1
RCT Instruments Kits		5
Automatic Developer		1
Plaster dispenser	One each for plaster and stone plaster	2
Model Trimmer	With diamond disc	1
Model Trimmer	With Carborandum disc	1
Welder with soldering		1
attachments		
Vibrator		2
Lab micro motor	Heavy duty with Hps	3
Dental Lathe		1
Steam cleaner		1
Pressure moulding		1
machine		

DEPARTMENT : ORAL MEDICINE AND RADIOLOGY.

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification	12
Panoramic X-Ray with Cephalometric	Preferably digital AERB Certified	1
Intra Oral X-ray Unit	AERB Certified	3
Pulp testers	Digital	3
Automatic periapical X-ray Developer		1
Automatic Panoramic with Cephalometric X-ray Developer		1
X-ray viewer	For Panoramic and Cephalometric films	2
Radiovisiography with Intra Oral Camera	Digital Intra X-ray System with one Sensor and Software	1
General X-ray Unit		1
Automatic Developers/ Dark Room	AERB Criteria	1
Lead Aprons		2
Lead Gloves		2
Lead collar		2
X-ray Hangers		6

Diagnostic Kits	Mouth mirror, dental probe, college tweezers	40

Lead Screen		1
Biopsy Kit		1
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Needle Burner with Syringe Cutter		2
CBCT	AERB Certified, capturing the complete image in less than 30 sec.	1(Optional)
Diagnostic kit		25
Biopsy Kit		2
Sailography equipment & Kit		1

DEPARTMENT: PUBLIC HEALTH DENTISTRY

NAME	SPECIFICATIONS	Required
Dental Chairs and Units	As per specification	16
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2
Needle burner with syringe cutter MOBILE CLINIC		4
Mobile dental van	Mobile dental van with two dental chairs with all the attachments and adequate sitting space for 15 to 20 people	
Dental chair with unit	Hydraulically operated with spittoon attachment, halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way-scaler and light cure, x- ray viewer, instrument tray, operating stool.	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	1
Intraoral x-ray	Portable	1
Glass bead sterilizers		1
Compressor	1.25HP	1
Metal Cabinet	With wash basin	1
Portable dental chair	Suitcase unit with airrotor, micromotor, scaler and compressor 0.25HP	2
Stabilizer	4KV	1
Generator	4KV	1
Water tank	400ltrs	1
Oxygen cylinder		1
Public address system		1
TV and video cassette player		1

Demonstration models

5

	DEPARTMENT	SPECIFICATION	REQUIREMENT
Α	DENTAL ANATOMY, DENTAL HISTOLOGY & ORAL PATHOLOGY LAB		
1	Microscope		50
2	Television	With USB port For displaying slide	1
3	Teaching slides set with box		3 Sets (with minimum of 55 slides in each set)
4	Education models & dental developmental set (Nissan like model)		3

HISTOPATHOLOGY ROOM		
Microtome	Manual/automatic	1
Wax Bath		1
Water Bath		1
Knife Sharpener		1
Spencer Knife		1
Disposable Blade		1set
Hot Air Oven		1
Organic Tissue Capsule	Small	2
Distilled Water Plant		1
Diamond Tip Pencil		1
Glass Dropper Bottle		5
Glass Bottle With Lid		5
Wide Mouth Bottles		5
Glass Funnel		5
Glass Pipette		5
Glass Measuring Jar		5
Petri Dish 4" Glass		5
L Blocks		3
Loop Holder		3
Magnifying Glass		1
Toothed Forceps		5
Plastic Dropper		5
Petri Dish 50mm Glass		5
Gas burner/Spirit Lamp		1
Processing Bottles		5
Slide Warming Table		1

Slide Drying Tray		1
Slide Carrying Tray		1
Staining Basket SS		1
Staining Trough SS	Stainless steel	1
Staining Trough Glass		1
Slide Staining Rack SS	Stainless steel	1
Slide Box		1
Slides Storage Cabinet		1
Wax Block Storing Cupboard		1
Stop Watch		

ORAL PATHOLOGY REPORTING STATION		
	With all attachments	1
Microscope - Trinocular		
Colour Printer		1
Desktop Computer		1

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