



GOVERNMENT DENTAL COLLEGE AND
HOSPITAL, AHMEDABAD.



LIST OF EQUIPMENTS

Department of Oral Medicine & Radiology

NAME	SPECIFICATION	QTY.	Availability
Dental Chairs and Units	Electrically operated with shadow-less lamp, spittoon, 3 way syringe, instrument tray and suction	One chair & unit per PG student and Two chairs & unit for Faculty	29
Intra Oral Radiography Machine			04
Panoramic Radiography (OPG) Machine with Intra-Oral Camera			02
Pulp Tester			01
Autoclave			05
Punch Biopsy Tool			04
Biopsy Equipment			04
Surgical Trolley			05
Emergency Medicines Kit			04
Extra Oral Cassettes with Intensifying Screens (Conventional & Rare Earth)			01
Lead Screens			04
Lead Aprons			06
Lead Gloves			03
Dark Room with Safe light facility			01
Radiographic Film storage Lead Containers			01
X-ray Viewer boxes			07
Computer with Internet Connection with attached Printer			06

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& Scanner			
Illuminated Mouth Mirror probe			01
Dental Laser			01
RVG			01
Dental 3D Printer			01
PSP X ray plate Scanner			01

DEPARTMENT: Oral and Maxillofacial Surgery

NAME	SPECIFICATION	QTY.	Availability
Dental chairs and units	Electrically operated with shadowless lamp, spittoon, instrument tray and high vacuum suction, micromotor /Air motor	One chair & unit per PG student and Two chairs & unit for Faculty	PG: 09 STAFF: 04 UG:30
Autoclave	Front loading		03
Fumigators			02
Oscillating saw	With all hand pieces		03
<i>Surgical instruments</i>			
A. General surgery kit			5
B. Tracheotomy kit (with set of disposable tubes consisting of six)			1
C. Minor oral surgery kit			5
D. Osteotomy kit			2
E. Cleft surgery kit			3
F. Bone grafting kit			Nil
G. Emergency kit			2
H. Trauma set including bone plating kit			4
I. Implantology kit (standard/imported ISI approved)			03(SHARED WITH IMPLANTOL OGY SECT.)
Distraction osteogenesis kit			1

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(desirable)			
Operating microscope and Microsurgery kit (desirable)			01 (SHARED WITH D.OF CONS. DENT.)
Dermatomes			Nil
Formalin chamber			1
Pulse oximeter			2
Ventilator			1
Major operation theatre with all facilities			1
Recovery I.C.U. with all necessary life support equipments		2 beds	02 Beds
Fiber optic light			2
Inpatient beds		20	20 +02 in Dental recovery room
Fiber optic laryngoscope			2
Cautery Shalya			2
Computer with Internet Connection with attached Printer & Scanner			1

DEPARTMENT OF PERIODONTOLOGY

SR.NO.	NAME OF THE EQUIPMENTS	QUANTITY HELD
1	DENTAL CHAIR WITH UNIT	50
2	REVOLVING STEEL STOOL	19



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3	WOODEN STOOL	22
4	HUFRIEDY U 15/30 SUPRAGINGIVAL SCALERS	40
5	AUTO CLAVE	03
6	ULTRASONIC CLEANER	02
7	FORMALIN CHAMBERS	02
8	UV CHAMBERS	02
9	HOT AIR OVEN	0
10	CENTRALIZED COMPRESSOR	01
11	SUCTION	12
12	INTRAORAL CAMERA	00
13	LIGHT CURE UNIT	01
14	ELECTROCAUTERY	01
15	DENTAL SURGICAL TROLLEY	10
16	OXYGEN TROLLEY WITH CYLINDER	01



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17	SINUS LIFT INSTRUMENT SET	01
18	MICROSURGERY LOUPES	04
19	LASERS	01
20	COMPUTER WITH PRINTER AND SCANNER	05
21	REFRIGERATOR	01
22	STRETCHER AND WHEEL CHAIR	01

DEPARTMENT OF PERIODONTOLOGY

(FOR UNDERGRADUATE COURSE)

SR.NO.	NAME OF THE INSTRUMENTS	QUANTITY HELD
1	SUPRAGINGIVAL SCALERS	40 SET
2	SUBGINGIVAL SCALERS	40 SET
3	WILLIAMS GRADUATED PROBE	40
4	UNC PROBE	40
5	MOUTH MIRROR	40


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6	STRAIGHT PROBE	43
7	TWEEZER	40
8	TOWEL CLIP	10
9	HUFRIEDY U 15/30 SUPRAGINGIVAL SCALERS	40

DEPARTMENT OF PERIODONTOLOGY

(FOR POST GRADUATE COURSE)

SR.NO.	NAME OF THE INSTRUMENTS	QUANTITY HELD
1	PERIO FILES – HU-FRIEDY FS 3/4 S	06
2	PERIOSTEAL ELEVATOR (PKN-1) – HU-FRIEDY	18
3	POCKET MARKER – HU-FRIEDY	20
4	CUMINE DE SCALER	18

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5	BONE FILE	16
6	ORBAN KNIFE	03
7	MERRIFIELD KNIFE	06
8	KIRKLAND KNIFE	06
9	FISCH KNIFE	10
10	SURFACE SCALER (SDP 5/6 K)	18
11	P2N6 NABER PROBE	17
12	SCALPLE HANDLE (10-130-07K)	34
13	GOLDMAN FOX SCISSORS	20
14	WILLIAMS PROBE (PQOW6)	17
15	NEEDLE HOLDER (MICRO NHDPVN)	17
16	GRACEY CURETTES – HU-FRIEDY SRPG – 3/126 SRPG – 5/66 SRPG 7/86 SRPG 11/126 SRPG 13/146	17 SETS
17	CASSETTS	17

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18	ULTRASONIC SCALERS UNIT	17
19	MICROSURGICAL LOUPES (STAC)	01
20	SINUS LIFT INSTRUMENT SET	01
21	MICROSURGERY LOUPES	04
22	LASERS	01

DEPARTMENT : Orthodontics and Dentofacial Orthopedics

EQUIPMENTS: (POSTGRADUATE)

NAME	SPECIFIC ATION	QTY.	Availability
Dental Chairs and Unit	Electrically operated with shadow less lamp, spittoon, 3 way syringe, instrument tray and suction	One chair & unit per PG student and Two chairs & unit for Faculty	14
Vacuum/Pressure Moulding Unit		1	0
Soldering torches		1	1
Lab Micromotor		5	6
Spot Welders		5	5
Model Trimmer(Double Disc)		3	2

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Light Curing Unit		2	3
Polishing Lathes		3	2
Tracing Tables		5	0
Digital Camera		1	1
Computers with all accessories and software for orthodontic image manipulation		1	7
Scanner with transparency adapter		1	0
X-ray Veiwier		1	2
O.H.P.		4	0
LCD Projector		0	1
Autoclave – microprocessor based, Wet & Dry. High & Low Cycle		1	2
Vacuum mixer		0	0
Vibrators		0	0
Plaster dispensers		0	0
Dry Heat Sterilizer		1	1
Ultrasonic Scaler		1	0
Sets of Orthodontic Pliers		3	6
Orthodontic Impression trays		5	4
Ultrasonic tray cleaner		1	3
Typodonts with full teeth set		3	4
Anatomical Articulator with face bow attachments		1	1
Three Plane Articulators		0	0

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Hinge Articulators		4	5
Hydro soldering Unit		0	1
Electro polisher		1	1

Note : These requirements are in addition to requirement for BDS Course.

EQUIPMENTS: (UNDERGRADUATE)

NAME	SPECIFICATION	Required As per DCI	Availability
Dental Chairs and Unit	As per specification	18	16
Unit mount scaler		5	-
Autoclave	Having wet and dry cycle, which can achieve 135 C with minimum capacity of 20 liters	2	2
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	1	3
ORTHO LAB			
Plaster dispenser	One each for plaster and stone plaster	2	0
Vibrator		2	0
Model Trimmer		2	2
Micro motor	Heavy duty	4	6
Lathe		1	2
X-ray viewers		2	2
OPG with cephalostat	If available in radiology its is adequate.		Available in ODMR

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			Dept.
Welders		4	5
Blue Torch		1	0
Base formers		4	2 Pairs
Typodont		4	4
Set of Pliers		10	5
Welder with soldering attachments		1	2
Hydro solder		1	1
Typodont articulator	With metal teeth and wax rim of Class I,II,III	4	4
Pressure moulding machine		1	0

DEPARTMENT :Prosthodontics and Crown & Bridge

NAME	SPECIFICATION	QTY	AVAILABLE	Use Regular/ Rarely
Electrical Dental chairs units	With shadow less lamp, spittoon, three way syringe, Instrument tray and suction, micro motor, air rotor	One chair and unit per PG student and Two chairs and unit for faculty	28	Regular
Articulator – Semi adjustable	With face bow	06	12	Regular
Air rotor and Air motor hand piece		06	21	Regular
Micro motor –(Lab type)		02	18	Regular
Ultrasonic scaler		04	04	Regular
Light cure		02	07	Regular
Sterilization – Hot air oven		01	01	Regular
Autoclave		01	02	Regular
Surveyor		02	02	Regular
Refrigerator		01	02	Regular


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Pneumatic crown remover		01	02	
Needle Destroyer		02	04	Regular
Clinical Lab for Prosthetics				
Plaster dispenser		02	09	Regular
Model Trimmer with Carborandum Disc		01	05	Regular
Model Trimmer with Diamond Disc		01	02	Regular
Lathe		02	04	Regular
High speed lathe		02	02	Regular
Vibrator		01	06	Regular
Acrylizer		1	06 1 Not working	Regular
Dewaxing unit		01	01	Regular
Hydraulic press		01	04	Regular
Mechanical press		01	06	Regular
Vacuum mixing machine		01	03	Regular
Micro motor lab type		02	04	Regular
Curing pressure pot		01	01	Regular
Pressure molding machine		01	01	Regular
Chrome-cobalt Lab equipment				
Duplicator		01	02	Rarely
Pindex system		01	02	Regular
Burn out furnace		02	04	Regular
Welder		01	01	Rarely
Sand blaster (micro & macro)		02	05	Regular
Electro - Polisher			01	
Model Trimmer with Carborandum Disc		01	05	Regular
Model Trimmer with Diamond Disc		01	02	Regular
Model Trimmer with double disc One carborandum & One diamond disc		01	02	Regular
Casting machine Motor cast with		01	01	Regular



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the safety door closure Gas blow torch with regulator				
De waxing furnace		01	01	Regular
Induction casting machine with vacuum pump, Capable of casting titanium chrome cobalt precision metal		01	01	Regular
Programmable porcelain furnace with vacuum pump		01	01	Regular
Spot welder with soldering, attachment of cable		01	01	Regular
Steam cleaner		01	02	Regular
Spindle grinder 24000 RPM with vacuum suction		01	01	Regular
Wax heater		02	02	Regular
Wax carver		02	02	Regular
Milling machine		01	01	Regular
Stereo microscope		01	01	Regular
Magnifying work lamp		01	01	Regular
Heavy duty lathe with suction		01	02	Regular
Preheating furnace		01	02	
Dry model trimmer		01	01	Regular
Die cutting machine		02	03	Regular
Ultra sonic cleaner		01	03	Regular
Composite curing unit		01	02	Regular
Ceramic Lab Equipment				
Ceramic furnace		01	1 2 Not working	Regular
Ceramic kit (Instruments)		06	06	Regular
Implant Equipments				


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Implant kit		02	02	Regular
Implants		25	25	Regular
Prosthetic components		25	25	Regular
Unit mount light cure		02	02	Regular
X-ray viewer		02	02	Regular
Ultrasonic cleaner		01	01	Regular
Implant micro surveyor		01	01	Regular
Camera		01	01	Regular
Electrical dental chairs and units		02	02	Regular
Strengthen unit		01	01	
X-ray machine		01	01	Regular
RVG			01	
PSP Scanner			01	
Short cycle autoclave		01	02	
Refrigerator		01	01	
Surgical kit		02	02	Regular
Sinus lift instruments set		01	02	
Educating models			95	Regular

XII. MAJOR EQUIPMENTS

DEPARTMENT : PROSTHODONTICS AND CROWN & BRIDGE

NAME	Specification	Quantity	
		Required	Available
Dental Chairs and Units	As per specification		28
Semi adjustable Articulators	With Face-bow	06	12
Extra oral /Intra oral tracer			
Dewaxing Unit		01	01
Curing unit			
Dental Casting machine		02(01 simple+01 induction)	02
Wax burnout furnace		01	01
Pre hearting furnace		01	02

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Surveying unit			
Heavy Duty hand piece	Lab micro motors	02	02
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	02 01	18 02
Needle Burner with syringe cutter			02
Plaster Dispenser	One each for plaster and stone plaster	02	09
Model Trimmer with Carborandum Disc		01	05
Model Trimmer with Diamond Disc		01	02
Acrylizer			
Lathe		01	06
Flask Press		02 01 hydraulic 01 mechanical press	04 hyraullic 6 mechanical
Deflasking unit			
Dewaxing Unit			
Hydraulic Press		01	01
Mechanical Press		01	04
Vacuum Mixing machine		01 01	06 03
Lab Micro motor	With heavy duty hand piece	02	18
Curing pressure pot		01	01
Porcelain furnace		01	01
Vibrator		01	06
Sandblasting unit		02	05
Ultrasonic scaler		04	04
Model trimmer		03	09
Hot water sterilizer		05	07
Geyser			
H.P.. GRINDER WITH SUCTION			
Heavy duty lathe		02	10
Phntom heads			
Preclinical working tables			02



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DEPARTMENT : CONSERVATIVE DENTISTRY AND ENDODONTICS

EQUIPMENTS:- UG BDS

Name	Specification	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	41	41
Rubber dam kits		6	7
Restorative instruments kits		10	10
R.C.T. instrument kits		10	10
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3	3
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket	2	2
Needle burner with syringe cutter		4	4
Amalgamator	With auto proportion, auto dispenser	3	1
Pulp Tester-Digital		4	15
Apex Locator		2	2
Glass bead sterilizers		6	6
Intra-oral X-ray Unit	Proper radiation safety	1	1
PSP X ray plate Scanner		1	1
Automatic Developer		1	-
Radiovisiography	RVG with Computer	1	1
Endo motor	With torque control Hps	1	5
Bleaching unit		2	-
Magnification loops		2	2
Injectable gutta percha		2	2
PHANTOM LAB UNIT	Phantom Table fitted with 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 ivory teeth, preferably soft gingival, dental operator's stool (not to use extracted or cadaver teeth).	60	56

DEPARTMENTAL LABORATORY

Plaster Dispenser	One each for plaster and stone plaster	2	2
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Model Trimmer	Carborandum disc	1	1
	Diamond disc		-
Lathe	Heavy Duty	2	1
Lab Micromotor	With heavy duty handpiece	1	1
Ultrasonic cleaner	Minimum capacity 5 liters	3	8
Spindle Grinder		1	1
Vibrator		1	1
Burnout furnace		2	2
Porcelain furnace		1	1
Sandblasting Machine		1	1
Lab Airrotor		1	1
Pindex System		1	1
Circular saw		1	1
Vacuum mixer		2	
Pneumatic chisel		1	1
Casting machine	Motor cast/induction casting preferred	1	2 (1- Induction 1 -centrifugal)

EQUIPMENTS:- PG

Sr. No.	Name	Specification	Quantity		Availab ility
			Unit 1	Unit 2	
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor, airotor attachment with hand pieces (Fibre optic) and scaller	One chair per post-graduate student and two for faculty per Unit		23
2.	ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment			3	3
3.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems			6	9
4.	Rubber dam kit		1 per chair	1 per chair	20





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5.	Autoclaves for bulk instrument sterilization vacuum (Front loading)			3	3
6.	Autoclaves for hand piece sterilization				
7.	Apex locators			1	2
8.	Pulp tester			4	10
9.	Equipments for injectable thermoplasticized gutta percha			4	20
				2	4
10.	Operating microscopes 3 step or 5 step magnification			1	2
11.	Surgical endo kits (Microsurgery)				
12.	Set of hand cutting instruments			2	2
13.	Sterilizer trays for autoclave			2	2
14.	Ultrasonic cleaner capacity 3.5 lts			4	23
15.	Variable Intensity polymerization equipments - VLC units	Desirable		1	2
16.	Conventional VLC units			1	5
17.	Needle destroyer			4	3
18.	Magnifying loupes			2	3
19.	LCD projector			2	6
20.	Composite kits with different shades and polishing kits			1	1
				4	10
21.	Ceramic finishing kits, metal finishing kits	In ceramic labs			
22.	Amalgam finishing kits			3	3
				3	4
23.	RVG with x-ray machine developing kit				
24.	Chair side micro abrasion			2	2
25.	Bleaching unit			1	-
26.	Instrument retrieval kits with Piezo Electric ultrasonic tips			1	-
				1	3
27.	Computer with internet connection with attached printer and scanner			1	1
28.	Refrigerator				
				1	1
29.	Laser (preferably hard tissue)			1	-
30.	Face bow with semi adjustable articulator			2	-
31.	GP cutter				
				-	2
32.	Proffin system	Optional			
33.	Portable X-ray machine			-	-
					1
34.	Intra-oral X-ray Unit	Proper radiation safety		3	3

DEPARTMENT :Paediatric and Preventive Dentistry


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NAME	SPECIFICATION	QTY.
Dental Chairs and Units	Electrically operated, spittoon attachment, Halogen Light with 2 intensity, high power motorized evacuation system, Air rotor with miniature hand piece, Micro motor with miniature conrtriangle Hand piece, 3 way syringe, ultrasonic scaler with 3 tips, light cure unit LED based heat free, X-ray viewer, instrument tray, Dental Operator's stool with height adjustment (40% should pedo chair)	One chair & unit per PG student and Two chairs & unit for Faculty 36
Rubber Dam Kit		1 set per P.G. Student 10
Pedo extraction forceps		2 sets 100
Adult extraction forceps		2 sets 28
Amalgamator		1
Endomotor		4
Injectable GP condensation		1
Pulp Tester		4
Apex Locator		1
SS crown kit		10
Poly carbonate / strip crown kit		6
Endodontic pressure syringe		-
X-ray Viewer		1
Hydro solder		1



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Spot welder		2
Chemo mechanical caries removal system		-
Typhodont		1 set (Pedo + Permanent) per P.G. Student 9
Pliers		2 sets each
i) Band forming		8
ii) Band pinching		1
iii) Ball and socket (No. 112)		1
iv) Band removing		
v) Proximal contouring (No. 114)		
vi) Crimping plier		
Computer with internet, Scanner and Printer	Pentium IV	01 2 & 5
Sterilization		
i) Autoclave	Front loading	2
ii) Glass bead sterilizer		2
iii) Ultrasonic cleaner		3
iv) Needle destroyer		2
v) Fomalin chamber		3
X-ray machine		3
RVG		1
Automatic developer		2
Conscious sedation unit	(Desirable)	1
Electronic anaesthesia		1
Pulse oxymeter		3
Emergency drugs tray		1
Magnifying loupes		4


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Phantom table with phantom heads with attached light, airtor and micromotor		3
Plaster dispenser	1 for plaster and 1 for stone	2
Vibrator		23
Model trimmer	(double disc one diamond and one carborandum disc)	1
Lab micromotor		10
Acrylizer		1

UG DEPARTMENT: PAEDIATRIC AND PREVENTIVE DENTISTRY

Name	Specification	Quantity
		Required
Dental Chairs and Units	As per specification (Pedo chair preferred)	10
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	1
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	3
Needle Burner with syringe cutter		2
Amalgamator		1
Pulp Tester-Digital		3
Rubber dam kit for pedo		9
Apex locator		1
Endo motor	With torque control HPs	1
Injectable gutta percha with condensation		1
Radiovisiography	Digital intra X-ray system with pedo sensor and software	
Intra Oral Camera	With high resolution	1
Scaling instruments		8

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Restorative instruments		10
Extraction forceps		50
Intra-oral X-ray		
Automatic Developer		2
Computer	Minimum Pentium IV	6
Plaster dispenser	One each for plaster and stone plaster	2
Model Trimmer	With diamond disc	2
Model Trimer	Double disc one diamond and one carborandum disc	1
Welder with soldering attachments		1
Vibrator		3
Lab micro motor	Heavy duty with Hps	3
Dental Lathe		1
Model Trimmer		1
Steam cleaner		1
Pressure moulding machine		1
Carborandum Disc		
Diamond disc		

DEPARTMENT: PUBLIC HEALTH DENTISTRY

Equipment for UG (BDS):

NAME	SPECIFICATIONS	Required	Available
Dental Chairs and Units	As per specification	16	16
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2	2
<u>MOBILE CLINIC</u>			
Mobile dental van	Mobile dental van with		


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	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.	2	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	1	1
Intraoral x-ray	Portable	1	0
Glass bead sterilizers		1	0
Compressor	1.25HP	1	1
Metal Cabinet	With wash basin	1	1
Portable dental chair	Suitcase unit with airrotor, micromotor, scaler and compressor 0.25HP	2	1
Stabilizer	4KV	1	1
Generator	4KV	1	1
Water tank	400ltrs	1	1
Oxygen cylinder		1	0
Public address system		1	1
TV and video cassette player		1	1
Demonstration models		1	1

Equipment for PG (MDS):

Sr. No	Name	Specification	Quantity	Availability
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe,	One chair per post-graduate student and one for faculty per	09

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		instrument tray and motorized suction, micromotor attachment with contra angle handpiece, airtor attachment , ultrasonic scaler (Piezo) with detachable autoclavable handpiece with min 3 tips	Unit	
			Unit 1	
2.	Extraction forceps		4 sets	1
3.	Filling instruments		4 sets	4
4.	Scaling instruments	Supragingival scaling	4 sets	4
5.	Amalgamator		1	1
6.	Pulp tester		1	1
7.	Autoclave		1	0
8.	X-ray Viewer		1	0
9.	Instrument Cabinet		1	1
10.	LCD or DLP multimedia projector		1	1
11.	Computer with Internet Connection with attached printer and scanner		1	1
12.	Refrigerator		1	1

DEPARTMENT : Oral Pathology & Microbiology

ESSENTIAL EQUIPMENTS			
NAME	SPECIFICATION	QTY	Availability
Dental Chair		1	Available
Automatic tissue processor		1	Available
Tissue capsules / Tissue embedding		50	Available


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cassettes			
Paraffin wax bath (thermostatically controlled)		1	Available
Leuckhardt moulds		20 pairs	Available
Semi automatic microtome		1	Available
Tissue floatation water bath (thermostatically controlled)		1	Available
Hot plate		2	Available
Steel slide racks for staining		3	Available
Diamond glass marker		10	Available
Trinocular microscope with camera attachment & computer software		1	Available
Binocular Compound Microscope		10	Available
Aluminum slide trays		3	Available
Wooden / Plastic slide boxes		413	Available
Slide storing cabinet		1 of 10,000 capacity	Available
Refrigerator		2	Available
Incubator		2	Available
Hot Air Oven		1	Available
Laboratory glassware		Required quantity	Available
Computer with attached printer		3	Available

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