DETAILS OF LABORATORIES





REGD NO.MAH/F/-1588/RATNAGIRI
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(1st year BDS)

DEPARTMENT OF BIOCHEMISTRY

Resources:

Equipments:

Sr no	Name of equipment
1.	Water bath
2.	Colorimeter
3.	Microscope
4.	Electrophoretic apparatus
5.	Hot air oven
6.	Urinometer
7.	Electronic weighing machine

Glassware's

Sr no	Name of glassware
1.	Beakers
2.	Pipettes
3.	Test tubes
4.	Conical flask
5.	Measuring cylinder
6.	Urine glass
7.	Glass rod
8.	Funnel
9.	Round bottom flask
10.	Reagent bottles







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Reagents:

Sr no	Name of reagent
1.	Ammonium oxalate
2.	Ammonium molibdate
3.	Ammonium sulphate
4.	Acetic acid
5.	Ammonia solution
6.	Acetone
7.	Barium hydroxide
8.	Benzoic acid
9.	Barium nitrate
10.	Barium chloride
11.	Bromocresol green
12.	Bismuth subnitrate
13.	Benzidine





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14.	Benedict reagent
15.	Cupric sulphate
16.	Cupric acetate
17.	Calcium chloride
18.	Creatinine
19.	Chlorophenol red
20.	Ortho phosphate
21.	Methyl yellow
22.	Dextrose
23.	Ferric chloride
24.	Fructose
25.	Formalin
26.	Glacial acetic acid
27.	Hydrogen peroxide
28.	Iodine
29.	Lactose
30.	Lead acetate
31.	L ascorbic acid
32.	
ļ	Methylene blue
33.	Mercuric sulphate
34.	Methanol
35.	Molybdic acid
36.	Maltose
37.	Methyl red
38.	Ninhydrine
39.	Oxalic acid
40.	Orthophosphoric acid
41.	Potassium hydroxide pellet
42.	Phenol red
43.	Potassium thiocyanate
44.	Potassium ferricyanide
45.	Potassium dihydro orthophosphate
46.	Phospho molybdic acid
47.	Potassium iodide
48.	Potassium oxalate
49.	Potassium sodium tartarate
50.	Phenolphthalein indicator
51.	Resorcinol
52.	Sodium sulphate
53.	Sodium thiosulphate
54.	Sodium fluoride
55.	Sodium chloride
56.	Sodium nitropruside
57.	Sulphosalicyclic acid
58.	Sodium tungstate
59.	Sodium nitrate
60.	Sucrose
61.	Sodium acetate
62.	Sodium hydroxide
63.	Silver nitrate
64.	Sodiumdihydro orthophosphate dehydrate
65.	Starch





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66.	Sulphur powder
67.	Trisodium citrate
68.	Trichloroacetic acid
69.	Urea
70.	Urease powder
71.	Alpha naphthol
72.	Disodium hydrogen orthophosphaye
73.	Sodium bicarbonate
74.	Magnesium sulphate
75.	Methylene yellow
76.	Picric acid
77.	Chloroform
78.	Glucose reagent
79.	Absolute alcohol
80.	Ascorbic acid
81.	Bromine vila capsule
82.	Hydrochloric acid
83.	Bovine albumin
84.	Sulphuric acid
85.	Nitric acid





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DEPARTMENT OF PHYSIOLOGY

RESOURCES AVAILABLE:

Sr. No.	Resources
	Equipments
	1. Microscope
	2. Sphygmomanometer
	3. Incubator
	4. Hemocytometer for for HB estimation
	5. Neubauer chamber
	6. RBC estimation box
	7. RBC pipette with rubber seal
	8. WBC estimation box
	WBC pipette with rubber seal
	10. Coverslips
****	11. Filter paper
	12. Lancet
	13. Dispensing bottles
	Reagents
	1. RBC diluting fluid
	2. WBC diluting fluid
***************************************	3. Leishman stain with buffer
	4. Blood group antisera
·	5. Normal Saline
	6. Sodium citrate
	7. Sodium hypochlorite
	8. Acetone
	9. 10% HCl





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DEPARTMENT OF GENERAL HUMAN ANATOMY

Sr. no.		
	1.	DISSECTION HALL
		tion table – Stainless-Steel tables with drainage for
	cadave	rs dissection Educational
	2.	CADAVER ROOM
	_	Large Storage Tank 1200 lt or 130 sq. feet
	_	Small Tank 800 lts
	-	Freezer Unit To store two cadavers
	3.	HISTOLOGY ROOM
	_	Dissection Microscopes
	-	Monocular Microscopes
		Binocular Microscopes
	4.	MUSEUM
		Partition described to the control of the control o
	-	Full body skeletal bones Head and neck bones set
	-	
	-	Complete Human organs specimen set
	1	





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DEPARTMENT OF DENTAL ANATOMY AND HISTOLOGY

PRECLINICAL ACTIVITIES PROPOSED FOR FIRST YEAR STUDENTS

- Processing of tissue for preparation of histology slides.
- Plaster and wax models of tooth
- Painted Ideal and patients Casts
- Extracted normal anatomy tooth specimens
- Painted Casts of Primary, Permanent and Mixed Dentition.
- Extracted tooth specimens of Incisors, canine, premolars and molars.
- Demonstration of basic carving
- Demonstration of tooth carving
- ❖ Tables with adequate sitting space provided with good illumination
- Histology slides includes —
- 1. Routine stained slides
- 2. Special stain slides
- 3. Basic cells slide
- 4. Decalcified sectioned slides
- 5. Ground sectioned slides
- Monocular, binocular and trinocular microscope available in department for teaching minute details to students
- Trinocular microscopes with camera and software (MICAP 3.7 digital camera)attachment to project live image on to the Computer for better understanding





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DEPARTMENT OF PROSTHODONTICS, CROWN AND BRIDGE

PRECLINICAL PROSTHODONTICS

2nd YEAR UG

Sr. No.	Resources Available
1.	Plaster Dispenser
2.	Duplicator
3.	Index System
4.	Circular saw
5.	Burn out furnace
6.	Sandblasting machine
7.	Electro-polisher
8.	Model Trimmer with Carborandum disc
9.	Model Trimmer with Diamond disc
10.	Induction casting machine
11.	Programmable porcelain furnace with vacuum pump
11.	with instrument kit and material kit
12.	Spot welder with soldering, attachment of cable
13.	Vacuum mixing machine
14.	Steam Cleaner
15.	Spindle Grinder 24,000 RPM with vacuum suction
	Wax heater
	Wax carver
	Curing pressure pot
19.	Milling machine
20.	Heavy duty lathe with suction
21.	Preheating furnace
22.	Palatal trimmer
23.	Ultrasonic cleaner
	Composite curing unit
25.	Micro surveyor
26.	Pre-Clinical Prosthetics Laboratory
	Plaster Room For Pre-Clinical Work
27.	Plaster dispenser
28.	Vibrator
29.	Lathe
30.	Model Trimmer
31.	Carborandum Disc
32.	Diamond disc





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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

II Year

Orthodontics UG pre-clinical lab equipment's

Sr. No.	Equipment
1.	Plaster dispenser
2.	Vibrator
3.	Model Trimmer
4.	X-ray viewers
5.	Welders Blue Torch
6.	Base Formers Typodont
7.	Welder with soldering attachments
8.	Hydro solder
9.	Pressure moulding machine
10.	Hydro solder





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PRE-CLINICAL CONSERVATIVE & ENDODONTICS

2nd YEAR UG

EQUIPMENTS in UG PRE-CLINICAL

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 ivorine teeth, preferably soft gingival, dental operator's stool

Sr. no.	Resources available
1.	Plaster Dispenser
2.	Model Trimmer Carborandum disc
3.	Diamond disc
4.	Lathe (Heavy Duty)
5.	Lab Micromotor With heavy duty handpiece
6.	Ultrasonic cleaner
7.	Spindle Grinder
8.	Vibrator
9.	Burnout furnace
10.	Porcelain furnace





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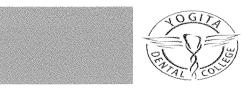
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DEPARTMENT OF MICROBIOLOGY

To introduce the students to the exciting world of microbes. To make the students aware of various branches of microbiology, importance, significance and contribution of each branch to mankind and other fields of medicine

Sr. no.	Resources Available
Α.	Microscopes
	- Monocular
	- Binocular
В.	Incubator
C.	Double door refrigerators for maintaining cultures
D.	Preparation room:
	1. Autoclave (small)
	2. Electric balance
	3. Water bath
	4. Anaerobic jar
	5. Centrifuge
	6. Bio safety cabinet
	7. Hot Air Oven
	8. Hot Plate (electrical for heating)





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DEPARTMENT OF PATHOLOGY

At the end of the course the student should be competent to: Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

Sr. no.	Resources Available
1.	Test tubes
2.	Glass pipette
3.	Conical flask
4.	Coupling Jar
5.	Wintrobe tubes
6.	Dropper bottles
7.	Capillary tubes
8.	RBC pipette
9.	Glass rods
10.	Micropipettes
11.	Hemometer pipette
12.	INSTRUMENTS
13.	Microscope
14.	Incubator
15.	Centrifuge
16.	Hemocytometer





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II year

DEPARTMENT OF PHARMACOLOGY

Sr. No.	Equipment					
1.	GLASS WARE					
	SAMARON II ARARA					
	- Beakers 50/100/250/500ml					
	- China Dish					
	- Conical Flask					
	- Funnel 50/65/75 mm					
	- Glass Rod Medium/Small					
	- Measuring Cylinder 5/10/25/50/100ml					
	- Measuring Cylinder 250ml					
	- Measuring Cylinder 500ml					
	- Mortar and Pestle Glass& Porcelain					
	- Pasteur pipette pack of 100					
	- Pipette 1 ml					
	- Pipette 2ml					
	- Pipette 5 ml					
	- Reagent bottle with lid – Narrow Mouth					
	Amber(NMA) 125/250/500 ml					
	- Reagent bottle with lid – Narrow Mouth					
	White(NMW)125/250/500ml					
	- Reagent bottle with lid – Wide Mouth					
	Amber(WMA) 250ml					
	- Reagent bottle with lid – Wide Mouth					
	White(WMW) 125/250/500ml 500ml					
	- Test Tubes (Medium)					
	- Petri dish					
	- Wash Bottle					
	- Dropper Bottle					
2.	INCUPDITATENIES					
4.	INSTRUMENTS - Transparent Dispensing Box					
	- Dispensing Balance					
	- Dispensing Weight box					





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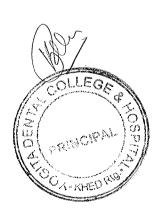
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DEPARTMENT OF PROSTHODONTICS, CROWN AND BRIDGE

Resources Available in Pre-clinical Prosthodontics

Sr.	Resources Available			
No.				
1.	Plaster Dispenser			
2.	Duplicator			
3.	Index System			
4.	Circular saw			
5.	Burn out furnace			
6.	Sandblasting machine			
7.	Electro-polisher			
8.	Model Trimmer with Carborandum disc			
9.	Model Trimmer with Diamond disc			
10.	Induction casting machine			
11.	Programmable porcelain furnace with vacuum pump			
	with instrument kit and material kit			
12.	Spot welder with soldering, attachment of cable			
13.	Vacuum mixing machine			
14.	Steam Cleaner			
15.	Spindle Grinder 24,000 RPM with vacuum suction			
16.	Wax heater			
17.	Wax carver			
18.	Curing pressure pot			
19.	Milling machine			
20.	Heavy duty lathe with suction			
21.	Preheating furnace			
22.	Palatal trimmer			
23.	Ultrasonic cleaner			
24.	Composite curing unit			
25.	Micro surveyor			
26.	Pre-Clinical Prosthetics Laboratory			
	Plaster Room For Pre-Clinical Work			
27.	Plaster dispenser			
28.	Vibrator			
29.	Lathe			
30.	Model Trimmer			
31.	Carborandum Disc			
32.	Diamond disc			





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PRECLINICAL CONSERVATIVE & ENDODONTICS

Sr. no.	Resources Available
1.	Plaster Dispenser
2.	Model Trimmer Carborandum disc
3.	Diamond disc
4.	Lathe Heavy Duty
5.	Lab Micromotor With heavy duty handpiece
6.	Ultrasonic cleaner
7.	Spindle Grinder
8.	Vibrator
9.	Burnout furnace
10.	Porcelain furnace





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3rd BDS

DEPARTMENT OF ORAL AND MAXILLOFACIAL PATHOLOGY

PRECLINICAL ACTIVITIES PROPOSED FOR THIRD YEAR STUDENTS

In the department of Oral Pathology and Microbiology teaching staff is regularly conducting preclinical activities which are helpful to students to works with basic knowledge in future life.

in department we have pathologic plaster casts and extracted tooth specimens to teach students the abnormal condition in occurs in oral cavity. This help students to identify the pathology in patient's mouth once they reach in clinical department.

RESOURCES AVAILABLE

- Tissue grossing and processing for preparation of histology slides.
- ❖ Basic instruments like microtome, wax bath, water batch etc
- Other tissue processing equipment's for slide staining
- Casts anomalies specimen includes:
- Cleft palate cast
- Mesodens cast
- Paramolar cast
- Distomolar cast
- Parapremolar cast
- Submerge cast
- Peg shaped lateral cast
- * etc
- Extracted tooth specimens of Incisors, canine, premolars and molars.
- Histology slides includes Pathologic histology slides of neoplastic and non-neoplastic conditions
- Monocular, binocular and trinocular microscope available in department for teaching minute details to students
- Trinocular microscopes with camera and software (MICAP 3.7 digital camera)attachment to project live image on to the Computer for better understanding
- Observation of while doing blood testing help in gaining knowledge





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DEPARTMENT OF PEDODONTICS & PREVENTIVE DENTISTRY <u>UG PRE-CLINICAL EXERCISES</u>

Sr. No.	Resources Available
1.	Autoclaves Having wet and dry cycle
2.	Ultrasonic cleaner
3.	Needle Burner with syringe cutter
4.	Amalgamator
5.	Pulp Tester-Digital
6.	Rubber dam kit for pedo
7.	Radiovisiography Digital intra X-ray system with pedo sensor and software
8.	Intra Oral Camera With high resolution
9.	Scaling instruments
10.	Restorative instruments
11.	Intra-oral X-ray
12.	Automatic Developer





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DEPARTMENT OF ORTHODONTICS

Sr. No.	Equipment
1.	Plaster dispenser
2.	Vibrator
3.	Model Trimmer
4.	X-ray viewers
5.	Welders
	Blue Torch
6.	Base Formers
	Typodont
7.	Welder with soldering attachments
8.	Hydro solder
9.	Pressure moulding machine
10.	Hydro solder





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1ST YEAR MDS

PRE-CLINICAL WORK- CONSERVATIVE AND ENDODONTICS

S.No.	
	NAME
1.	ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment
2.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems
3.	Rubber dam kit
4.	Autoclaves for bulk instrument sterilization vacuum (Front loading)
5.	Autoclaves for hand piece sterilization
6.	Apex locators one for every two chairs
7.	Pulp tester
8.	Equipments for injectable thermoplasticized gutta percha
9.	Operating microscopes 3 step or
	5 step magnification
10.	Surgical endo kits (Microsurgery)
11.	Set of hand instruments (specifications required)
12.	Sterilizer trays for autoclave
13.	Ultrasonic cleaner capacity 3.5 lts
14.	Variable Intensity polymerization equipments - VLC units
15.	Conventional VLC units one for every two chairs
16.	Needle destroyer
17.	Magnifying loupes one for students and one for faculty





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18.	LCD projector
19.	Composite kits with different shades and polishing kits
20.	Ceramic finishing kits, metal finishing kits
21.	Amalgam finishing kits
22.	RVG with x-ray machine developing kit
23.	Chair side micro abrasion
24.	Bleaching unit
25.	Instrument retrieval kits
26.	Computer with internet connection with attached printer and scanner
27.	Refrigerator
28.	Equipments for casting procedures
29.	Equipments for ceramics including induction casting machines/ burnout preheat furnaces/ wax elimination furnaces
30.	Lab micro motor/ metal grinders / sand blasters/ polishing lathes/ duplicator equipment/ vacuum investment equipments
31.	Laser (preferably hard tissue)
32.	Face bow with semi adjustable articulator





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MDS PRE-CLINICAL PERIODONTOLOGY

S. No.	Resources
1.	Auto clave (fully automatic) front loading
2.	Steel bin
3.	Airoter hand pieces
4.	UV chamber
5.	Formalin chamber
6.	W.H.O probe
7.	Nabers probe
8.	Williams probe
9.	UNC-15 probe
10.	Gold Man fox probe
11.	Pressure sensitive probe
12.	Marquis color coded probe
13.	Supra gingival scalers
14.	Sub gingival scaler
15.	Arkansas sharpening stone
16.	Routine surgical instrument kit (Benquis periosteal elevator, periotome)
17.	Surgery trolleys
18.	X ray viewer
19.	Surgical cassette with sterilisation pouches
20.	Electro surgery unit
21.	Kirkland's knife
22.	Orban's knife
23.	Paquette blade handle
24.	Krane kaplan pocket marker

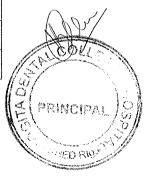




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25.	Mc Calls universal curettes
26.	Gracey's curettes (No.1-18)
27.	Mini five curettes
28.	Cumine scalar
29.	Mallet
30.	Chisel
31.	Oschenbein chisel
32.	Schluger bone file
33.	Bone fixation screw kit
34.	Bone scrapper
35.	Bone trephines for harvesting autografts
36.	Bone regenerative materials
37.	Local drug delivery systems
38.	Root conditioning agent
39.	Micro needle holder
40.	Micro scissors
41.	Magnifying loop (2.5 – 3.5)
42.	Operating microscope
43.	3 rd generation digital probe
44.	Bone expander and bone crester
45.	Distraction osteogenesis kit
46.	Bone mill
47.	Bone graft / membrane placement spoon
48.	Bone condenser
49.	Peizo-surgery unit
50.	Centrifuge for PRP/PRF preparation
51.	Soft tissue laser (8 watt)





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52.	Osteotome			

	MISCELLANEOUS INSTRUMENTS
1.	Composite gun with material kit
2.	Splinting kit with material
3.	Composite finishing kit
4.	Glass Ionomer cement
5.	Digital camera
6.	Intra Oral camera
7.	Ultrasonic cleaner
8.	Emergency kit
9.	Refrigerator
10.	X-ray viewer
11.	LCD projector
12.	Computer with internet connection with attached printer and scanner
13.	Implant Equipment
14.	Electrical dental chair and unit
15.	Physio dispenser
16.	Implant kit
17.	Implants
18.	Implant maintenance kit (plastic instruments)

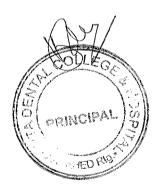




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19.	Implant guide
20.	X-ray viewer
21.	Needle destroyer
22.	Ultrasonic cleaner capacity 3.5 lts
23.	Autoclave programmable for all recommended cycles
24.	RVG with x-ray machine
25.	Refrigerator
26.	Surgical kit
27.	Sinus lift kit
28.	Educating models
29.	Implant removing kit





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$\mathbf{1}^{\mathrm{ST}}$ MDS ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

3. DETAILS OF LABORATORIES:

- Stone dispenser is used by UG and PG students for dispensing stone.
- Electro polisher is used for polishing stainless steel orthodontic attachments by PG students.
- Vacuum mixer is used by UG and PG students for mixing plaster.
- Acrylic trimmer is used by UG and PG students for trimming the acrylic.
- Hydro solder is used for soldering and brazing by PG students.
- Polishing buff is used for polishing by UG and PG students.
- Ultrasonic scaler is used for ultrasonic scaling by UG and PG students in the department.

S. No.	Resources
1	Vacuum /pressure moulding unit
2	Hydrogen soldering unit
3	Lab micromotor
4	Spot welders
5	Model trimmer (Double disc)
6	Light curing unit
7	High intensity light curing unit
8	Polishing lathes
9	Tracing tables
10	SLR digital camera
11	Scanner with transparency adapter
12	X-ray viewer
13	LCD projector
L	1





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14	Autoclaves for bulk instrument Sterilization vacuum (Front loading)
15	Needle destroyer
16	Dry heat sterilizer
17	Ultrasonic scaler
18	Sets of Orthodontic pliers
19	Orthodontic impression trays
20	Ultrasonic cleaner capacity 3.5 lts
21	Electropolisher
22	Typodonts with full teeth set
23	Anatomical articulator with face bow attachments
23	Free plane articulators
25	Hinge articulators
26	Computer software for cephalometrics





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STRUCTURED PROGRAM FOR PRE-CLINICAL PROSTHODONTICS FOR $\mathbf{1}^{\text{ST}}$ MDS

RESOURCES AVAILABLE:

S. No.	NAME	
	Articulators – semi adjustable/ adjustable with face bow	
	Micromotor – (Lab Type can also be attached (fixed) to wall	
1.	Ultrasonic scaler	
2.	Light cures	***************************************
3.	Hot air oven	
4.	Autoclave	
5.	Surveyor	
6.	Refrigerator	
7.	X-ray viewer	
8.	Pneumatic, Crown bridge remover	
9.	Needle destroyer	
10.	Intra oral camera	
11.	Digital SLR camera	
12.	Computer with internet connection with attached printer and scanner	
13.	LCD projector	***************************************
	Chrome – Cobalt Lab Equipment	
1.	Duplicator	
2.	Pindex system	
3.	Burn-out furnace	11
4.	Welder	
5.	Sandblaster	
6.	Electro – polisher	

PRINCIPAL)



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PRINCIPAL

CAYED RIO

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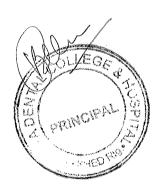
7.	Model trimmer with carborandum disc
8.	Model trimmer with diamond disc
9.	Model trimmer with double disc (one Carborandum and one diamond disc)
10.	Casting machine, motor cast with the safety door closure, gas blow torch with regulator
11.	Dewaxing furnace
	Induction casting machine with vacuum pump, capable of casting titanium chrome cobalt precision metal
12.	Spot welder with soldering, attachment of cable
13.	Steam cleaner
14.	Vacuum mixing machine
15.	Spindle grinder 24,000 ROM with vacuum suction
16.	Wax heater
17.	Wax carvers (Full PKT Set)
18.	Milling machine
19.	Stereo microscope
20.	Magnifying work lamp
21.	Heavy duty lathe with suction
22.	Preheating furnace
23.	Dry model trimmer
24.	Die cutting machine
25.	Ultrasonic cleaner
26.	Composite curing unit
	Ceramic Lab Equipment
1.	Fully programmable porcelain furnace with vacuum pump
2.	Ceramic kit (instruments)
3.	Ceramic materials (kit)
4.	Ceramic polishing kit
	Implant Favinment
1.	Implant Equipment Electrical dental chair and unit



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2.	Physio dispenser
3.	Implant kit
4.	Implants
5.	Prosthetic components
6.	Unit mount light cure
7.	X-ray viewer
8.	Needle destroyer
9.	Ultrasonic cleaner capacity 3.5 lts
10.	Autoclave programmable for all recommended cycles
11.	X-ray machine with RVG
12.	Refrigerator
13.	Surgical kit/prosthetic kit
14.	Educating models
15.	Implant removing instruments





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DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY

RESOURCES AVAILABLE:

S. No.	NAME
1.	Dental Chairs and Units
2.	Pedo extraction forceps sets
3.	Autoclaves for bulk instrument sterilization vacuum (Front loading)
4.	RVG with intra oral x-ray unit
5.	Automatic developer
6.	Pulp tester
7.	Apex locator
8.	Rubber dam kit
9.	Injectable GP condenser
10.	Endodontic pressure syringe
11.	Glass bead steriliser
12.	Spot welder
13.	Ultrasonic scalers
14.	Needle destroyer
15.	Formalin chamber
16.	Ultrasonic cleaner capacity
17.	X-ray viewer
18.	Amalgamator
19.	Plaster dispenser
20.	Dental lathe
21.	Vibrator
22.	Typodonts



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23.	Soldering unit
24.	Band pinching beak pliers
25.	Proximal contouring pliers
26.	Crown crimping pliers
27.	Double beak pliers anterior and posterior
28.	Lab micro motor
29.	Acryliser
30.	Magnifying loupes
31.	Conscious sedation unit
32.	Pulse oxymeter
33.	Phantom head table with attached Light, Airotor and micro motor
34.	Computer with internet connection with attached printer and scanner
35.	LCD projector
36.	Refrigerator

