



Chettinad

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4.2.1 List of facilities available for patient care, teaching learning and research

Clinical teaching and learning

- Preclinical phantom lab measuring around 3000 sq ft having 110 phantom model with airtor and micromotor facilities
- Tooth morphology lab
- Dental materials lab
- Prosthodontics pre-clinical laboratory
- Hi-tech ceramic and casting laboratory for postgraduate learning
- Orthodontics pre-clinical laboratory
- Oral pathology lab
- Museum

Laboratory facilities :

1. Equipments for ceramics including induction casting machines, 2. Burnout preheat furnaces 3. Wax elimination furnaces
1.Lab micro motor, metal grinders , 2. Sand blasters, 3.Polishing lathes, 4. Duplicator equipment, 5.Vacuum investment equipments
1. Ceramic finishing kits, 2. Metal finishing kits
Face bow with semi adjustable articulator

histopathology laboratory

S.No	Equipment
1.	Hot air oven
2.	Microtome
3.	Hot water bath
4.	Hot plate
5.	Slide warming Table
6.	Refrigerator
7.	Weighing machine
8.	Tissue processing unit

Orthodontics Lab details :

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UG Laboratory Space 2000 sft

PG Laboratory Space 576 sft

Prosthodontics and crown and bridge

S. No.	NAME
1.	Electrical Dental Chairs and Units
2.	Articulators – semi adjustable/ adjustable with face bow
3.	Micromotor – (Lab Type can also be attached (fixed) to wall
4.	Ultrasonic scaler
5.	Light cures
6.	Hot air oven
7.	Autoclave
8.	Surveyor
9.	Refrigerator
10.	X-ray viewer
11.	Pneumatic, Crown bridge remover
12.	Needle destroyer
13.	Intra oral camera
14.	Digital SLR camera
15.	Computer with internet connection with attached printer and scanner
16.	LCD projector
1.	Plaster dispenser
2.	Model trimmer with carborandum Disc
3.	Model trimmer with diamond disc
4.	High speed lathe
5.	Vibrator
6.	Acrylizer
7.	Dewaxing unit
8.	Hydraulic press
9.	Mechanical press

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10.	Vacuum mixing machine
11.	Micro motor lab type
12.	Curing pressure pot
13.	Pressure molding machine
1.	Duplicator
2.	Pindex system
3.	Burn-out furnace
4.	Welder
5.	Sandblaster
6.	Electro – polisher
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 RPM 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

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26.	Composite curing unit
1.	Fully programmable porcelain furnace with vacuum pump
2.	Ceramic kit (instruments)
3.	Ceramic materials (kit)
4.	Ceramic polishing kit
1.	Electrical dental chair and unit
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

Facilities for patient care

S.No.	Name
1.	Dental Chairs and Units - 45
2.	Endosonic handpieces – Micro endosonic Tips, retro treatment
3.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems
4.	Rubber dam kit
5.	Autoclaves for bulk instrument sterilization vacuum (Front loading)
6.	Autoclaves for hand piece sterilization
7.	Apex locators
8.	Pulp tester
9.	Equipments for injectable thermoplasticized gutta percha
10.	Operating microscopes 3 step or 5 step magnification
11.	Surgical endo kits (Microsurgery)
12.	Multiple Sets of hand cutting instruments
13.	Sterilizer trays for autoclave
14.	Ultrasonic cleaner capacity 3.5 lts

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15.	Variable Intensity polymerization equipments - VLC units
16.	Conventional VLC units
17.	Needle destroyer
18.	Magnifying loupes
19.	LCD projector
20.	Composite kits with different shades and polishing 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 with Piezo Electric ultrasonic tips
26.	Refrigerator

Oral pathology PG clinic with 5 dental chairs measuring 654 sq ft
hematology lab measuring 367 sq ft

S.No	Equipment
1.	Centrifuge
2.	Cytology kit
3.	Biopsy Kit
4.	Hematology lab with facilities for BT, CT, RBS and DC
5.	Binocular microscopes for biopsy reporting

Pedodontics and preventive dentistry

S.No	Equipments
1.	Conscious Sedation unit
2.	Injectable GP Condensation
3.	Electronic Anesthesia
4.	Radiovisiography (RVG)

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5.	Pressure Molding Machine
6.	Apex Locator
7.	Pulp Tester
8.	Pulse-oximeter
9.	Mobile Airoter unit

Research

1.	Operating microscopes with 3 step magnification
2.	Computer with internet connection with attached printer and scanner

Oral pathology lab

S.No	Equipment
1.	Penta head microscope
2.	Immunohistochemistry lab
3.	Research microscope with camera and computer assisted images
4.	Computer with internet connection attached to printer
5.	LCD Projector

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