



**LABORATORY FACILITIES OF DEPARTMENT: PROSTHODONTICS AND
CROWN AND BRIDGE**

NAME	USES
Surveyor-	used to locate and delineate contours of tooth for prosthesis
Plaster dispenser-	used to dispense gypsum products for manipulation
Acrylising Unit-	to cure heat cured acrylic resins during curing stage.
Hydraulic Press -	to press flasks and remove excess flash material
Lathe machine -	to trim acrylic material and polishing the prosthesis
Mechanical Press –	to mechanically press flasks after packing to remove excess flash.
Intra Oral Camera –	to display oral cavity on a projected screen for treatment plan discussion with patient.
Airotor –	preparation of teeth for restorative and prosthetic reasons.
Pulp Vitality Tester –	To check vitality of pulp and formulate treatment plan.
Double Disc Model Trimmer –	to trim gypsum models and casts
Ultrasonic Cleaner –	to clean instruments by ultrasonic vibrations
Mechanical Vibrator –	to help in mixing plaster as well while pouring casts for impressions.
Hot Air oven –	hot air sterilization of instruments.
LED Light cure –	light curing unit for composite restorations


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Hanau wide Vue-	semi-Adjustable articulator
Electric Wax melter –	melts inlay wax for making wax patterns
Plaster dispenser –	to dispense gypsum products.
Burnout furnace –	to melt wax after investment.
Pindex –	to make pinholes in die or casts.
Agar –	duplicating material machine to melt agar
Spot welder –	to solder and weld metal prosthesis.
Sandblasting –	fine alumina particles to blast fitting surface of prosthesis
Electro polisher –	to polish metal casting electrolytically
Single disc model trimmer-	to trim stone models and cast.
Oxygen cylinder –	blow torch for melting cast ingots for casting
Induction casting	to cast metal prosthesis.
Palatal Trimmer –	to trim palatal surface of casts
Vibrator-	to help in uniform mixing of gypsum and pouring casts.
Oxygen Cylinder	to melt cast ingots
Steam jet –	to clean cast metal surfaces
Vaccum mixer –	to mix investment materials in vaccum
Splendor Grinder High Speed-	to cut or grind metal castings
Optical Surveyor –	to survey casts models and dies for prosthesis
Die cutting Machine –	to cut or section dies.


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Gold Pickling Machine –	to treat gold alloy for restorations
Ultrasonic cleaner –	to clean prosthesis with ultrasonic vibrations
Light cure unit –	to cure light cured composites and tray materials
Biostar machine –	to make stents and splints
Lab micromotor –	handpiece and micromotor for trimming and polishing
Ceramic Furnace-	to fire porcelain for ceramic crowns

The above various equipments assists the undergraduates and post graduates in the following ways .

- Fabrication of models and prosthesis.
- Fabrication of complete denture
- Fabrication Removable partial Denture


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LIST OF LAB FACILITIES USED IN DEPARTMENT OF ORTHODONTICS

Department of orthodontics

Sl no.	Items	Quantity
1.	Vacuum /pressure moulding unit	1
2	Hydrogen soldering unit	2
3	Lab micromotor	6
4	Spot welders	12
5	Model trimmer (Double disc)	3
6	Light curing unit	6
7	High intensity light curing unit	2
8	Polishing lathes	3
9	Tracing tables	5

These various equipments have a wide range of uses such as-

- Fabrication of retainers, splints, night guards using biostar
- Fabrication of functional appliances
- Fabrication of removable appliances
- Fabrication of molar bands using spot welders
- Soldering of retraction hooks with the base arch wire
- Preparation of study models
- Polishing and electrolyte polishing used for recycling of brackets

All these equipments are help postgraduates in fabricating and delivering various appliances mentioned above.

DRY LAB EQUIPMENTS

I. BIOSTAR:

Versatile pressure moulding machine for all applications in dental pressure moulding and orthodontics. It is used to fabricate splints for patients.



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2. ELECTRO POLISHER

It is used to smooth and streamline the microscopic surface of most metal objects, improve surface finish, improve corrosion resistance and achieve passivation. Used in polishing of bands and crowns and other metal appliances



3. DIGITAL ELECTROPOLISHING:




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4. **HYDRO SOLDER:** It is used for dental soldering operations.



5. **SOLDER MACHINE**



6. **VACCUM MIXER:** used to mix materials devoid of air



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WET LAB EQUIPMENTS

1. **PLASTER DISPENSER:** Used to dispense dental plaster and dental stone



2. **MAJOR VIBRATOR:** to remove any air bubbles and provide a smooth mix



3. **TRIMMER**



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4. **LATHE:** used for trimming and polishing of casts



5. **POLISHING LATHE:** used to polish appliances



6. **MICROMOTOR HANDPIECE:** For trimming of appliances




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7. WELDING MACHINE IN CLINICS




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Department. of Anatomy

Particulars	Qty
Study Models	6
Dissection Set	2
Total	8

These help the students to help in various activities such as

- Help in identification of anatomical landmarks and structures
- Tactile examination & visualization supplementing the theoretical knowledge.



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Department. of Pathology & Microbiology

Particulars	Qty
Microscopes (Monocular)	29
Microscopes (Binocular)	2
Hot air oven	1
Centrifuge	1
FNAC Set	1
Hemoglobinometer	30
Hemocytometer	30
Specimen Jar	40
ESR tubes	12
PCV tubes	12
Teaching slides	150
Hematology slides	60
Teaching slides microbiology	10
Total	378

The various equipment's Helps in the

- Identification of Pathological tissues and their microscopic examination.



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Department. of Histology

Microscopes	35
Wooden Tables	4
Tubelights for microscopes	8
Total	47

These helps in the

- Microscopic examination of anatomical structures

Department of Biochemistry

Sl. No	Particulars	Qty
1	Colorimeter	1
2	PH meter	1
3	Waterbath	1
4	Weighing Machine	1
5	Centrifuge	1
Total		5

Department of Physiology

SL.NO	Particulars	Quantity
1	Microscopes	26
2	BP Apparatus	12
3	Stethoscope	6
4	Haemoglobinometer	33
5	Hemocytometer	8
6	Knee Hammer	1
7	Hot Air Oven	1
8	Incubator	1
9	Spirometer	1
Total		89

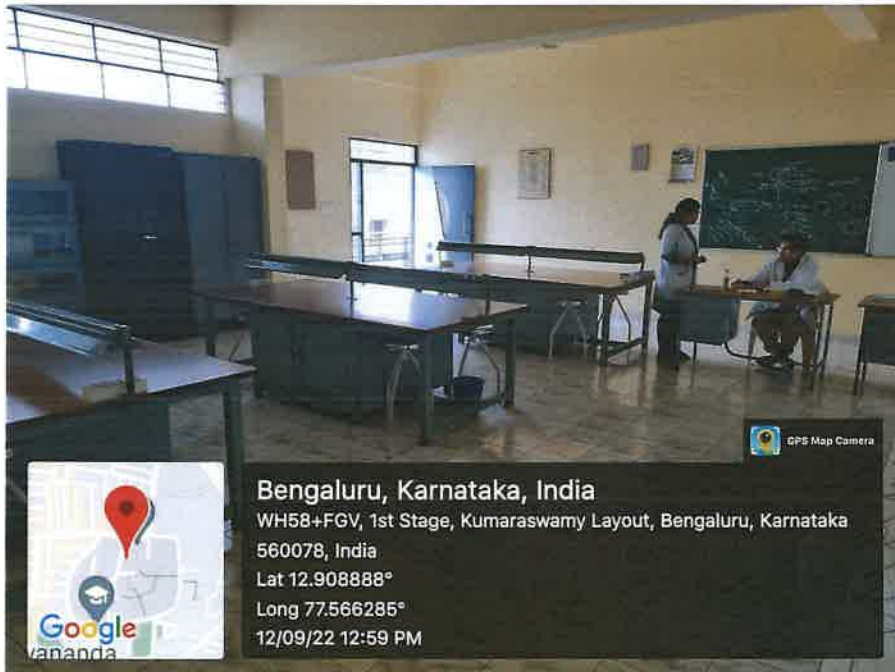
These equipment's helps

- Examination of Blood and blood pressure.


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**Department
of Dental
Materials**

SI. No	Particulars	Qty
1	Working tables	6
2	Lathe	1
3	Bunsen burners	36
Total		43

These helps in the following activities such as,

- Manipulations various dental cements
- Performing the Preclinical Prothodontic exercises such as denture fabrications



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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka)

(Recognised by Dental Council of India, New Delhi)



TO WHOMSOEVER IT MAY CONCERNED

This is to certify that the students and faculty of Dayananda Sagar College of Dental Sciences are permitted to use the other sister institutions located within the campus and other campuses of Dayananda Sagar Institutions for research purposes.

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Date: 01-12-2017

From,
Dr Savita AM
Professor and Head
Department of Periodontology,
DSCDS, Bengaluru-78

To,
Principal
Dayananda Sagar college of Pharmacy
Kumaraswamy Layout, Bangalore

Through,
Dr.Hemanth M,
Principal
DSCDS, Bengaluru- 78

Subject: Permission letter for utilizing the **HERBAL GARDEN** for our research projects

Respected Sir,
We are happy to intimate that we have been associated with various research projects at your esteemed institution.
With reference to above subject we request you to Grant permission to use the Herbal garden for conducting our research studies on Periodontal diseases.

Kindly do the needful and oblige

Thanking you

Your sincerely

Dr Savita AM
HOD
DSCDS

Permitted
V. V. V.
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Dr Hemanth M
PRINCIPAL
Head
Department of Periodontology
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Sl.No	1	2	3
Title	Comparative Evaluation of efficacy of <i>Murraya Koenigii</i> in the treatment of gingivitis : A randomized controlled clinical trial.	Comparative evaluation of substantivity of 0.2% chlorhexidine gluconate and 10% <i>Momordica Charantia</i> mouth rinses using spectrophotometer. An invitro study.	Comparative evaluation of Antiplaque and anti inflammatory efficacy of 10% <i>Momordica charantia</i> and 0.2% chlorhexidine gluconate mouthwash in patients with gingivitis. A double blind randomized controlled clinical trial.
Year of Study	2017- 2019	2018-2021	2018-2021
PG Student	Dr Ammu Varghese	Dr Tejashwini A	Dr Tejashwini A
Guide	Dr Harsha MB	Dr Sunil S	
Co-Guide	Dr Pallavi		
Laboratory name with address	Maratha Mandal Dental College Laboratory	Dayananda college of Pharmacy	Dayananda college of Pharmacy
Animal house name with address			
Herbal Garden name with address	Dayananda college of Pharmacy	Dayananda college of Pharmacy	Dayananda college of Pharmacy

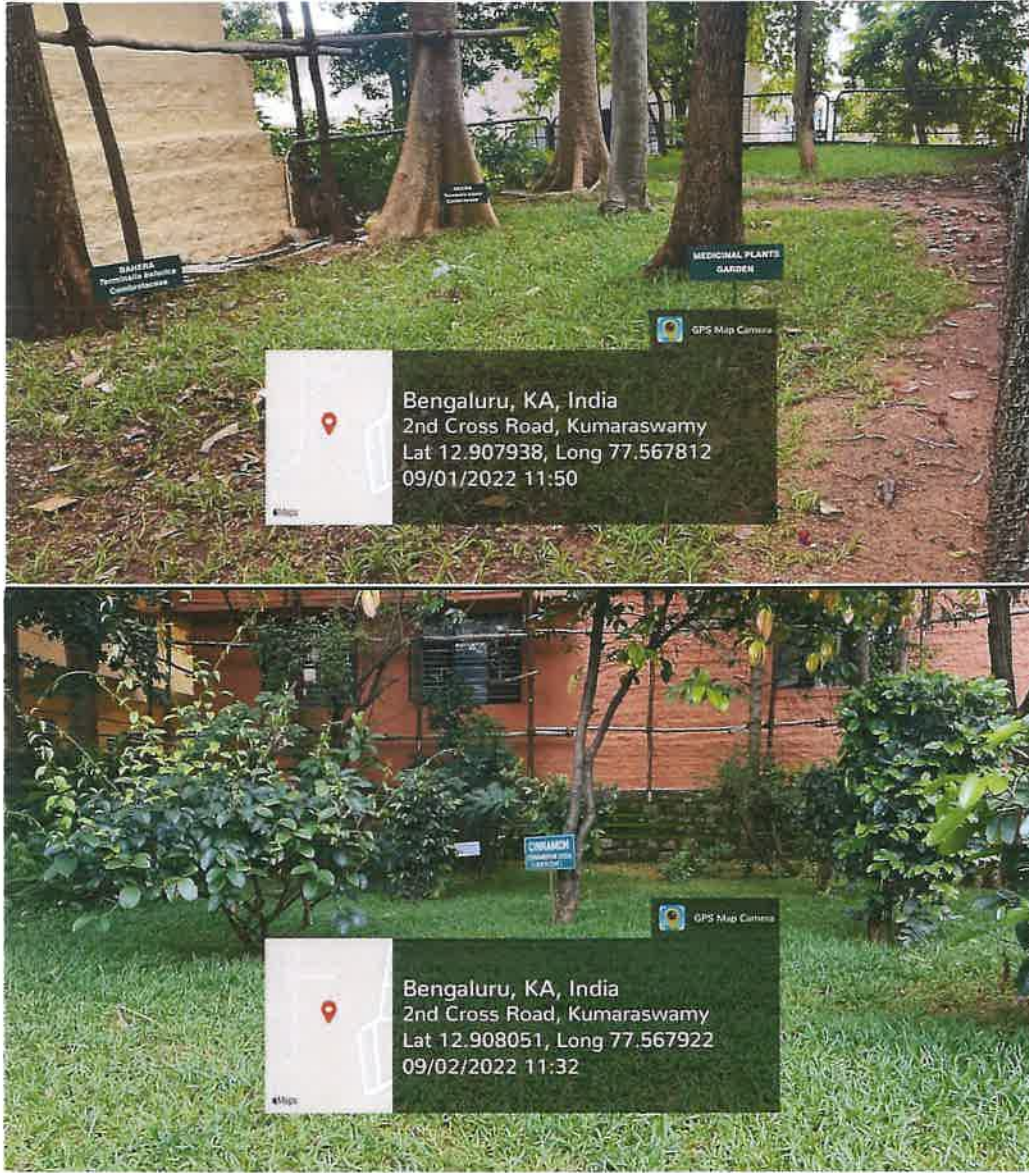
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Herbal Garden




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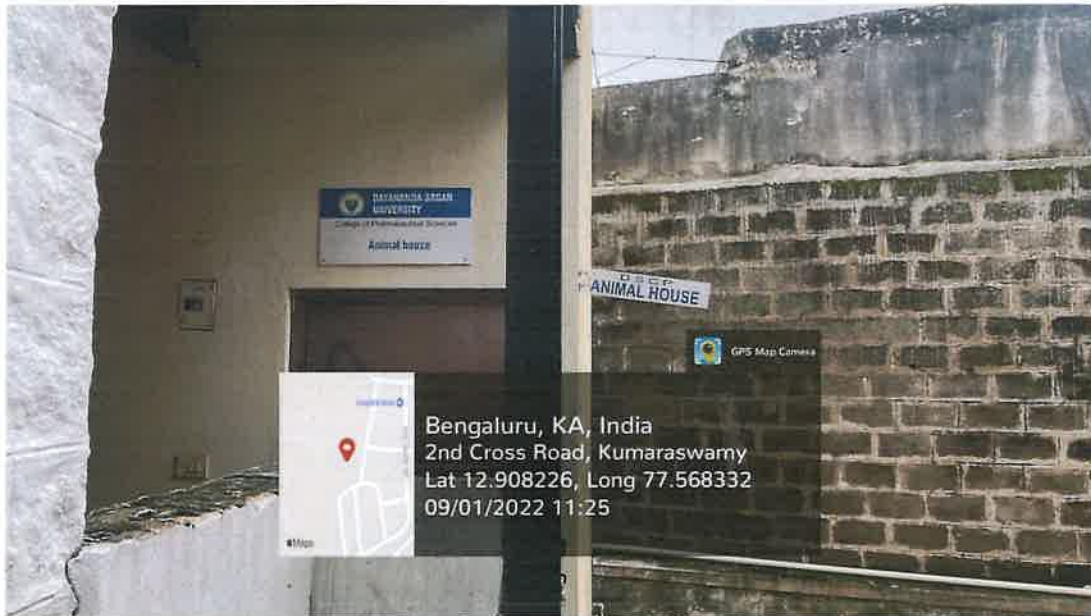
- Herbal garden is well maintained in a dedicated space for growing medicinal plants which aids in teaching, learning and research activities.

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Animal House



- Animal house is equipped with good shelter, clean, well Ventilated and lit.
- It is located in an isolated area away from waste disposal sites ensuring the safety of animals.
- The Animal house facility is available to boost the teaching, training and research activities.

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