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Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru



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 rosthesis	
Die cutting Machine —	to cut or section dies.	


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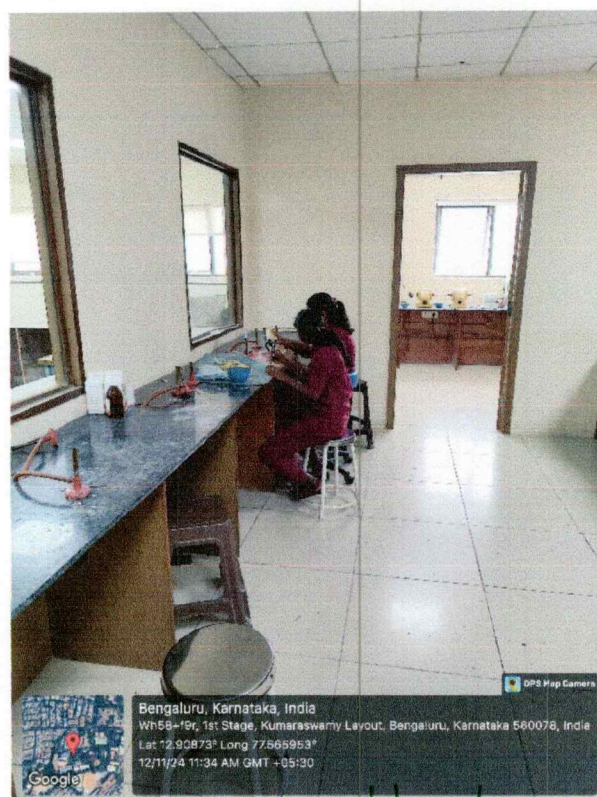


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Gold Pickling Machine —	to treat gold alloy for restorations
Ultrasonic cleaner —	to clean prosthesis with ultrasonic vibrations
Light cure unit —	to cure light cured composites and tray materials
Biostar machine —	to make stents and splints
Lab micromotor —	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
- ' Facbrication Removable partial Denture



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LIST OF LAB FACILITIES USED IN DEPARTMENT OF ORTHODONTICS

Department of orthodontics

no.	Items	Quantity
1.	Vacuum / pressure moulding unit	1
2	Hydrogen solder 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.


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DRY LAB EQUIPMENTS

1. 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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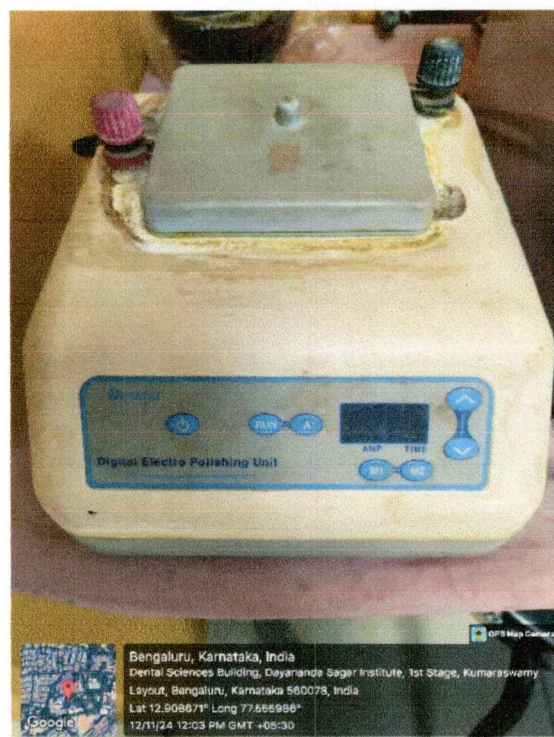


2. ELECTRO POLISHER

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



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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



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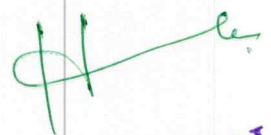


3. TRIMMER



4. LATHE: used for trimming and polishing of casts

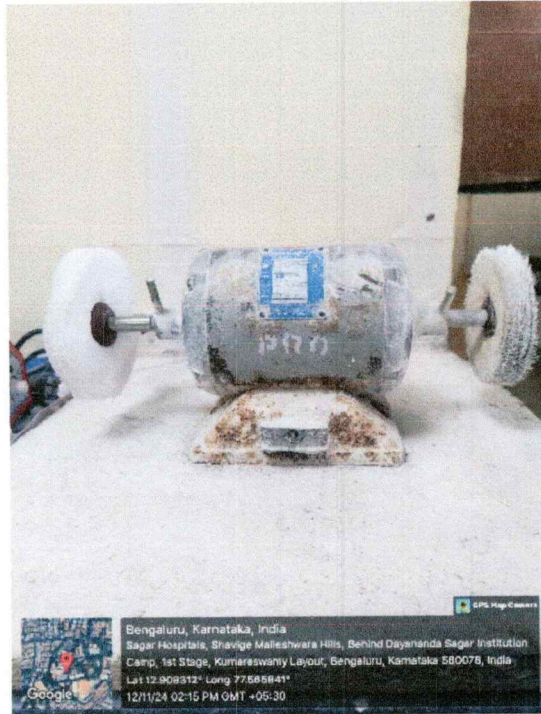



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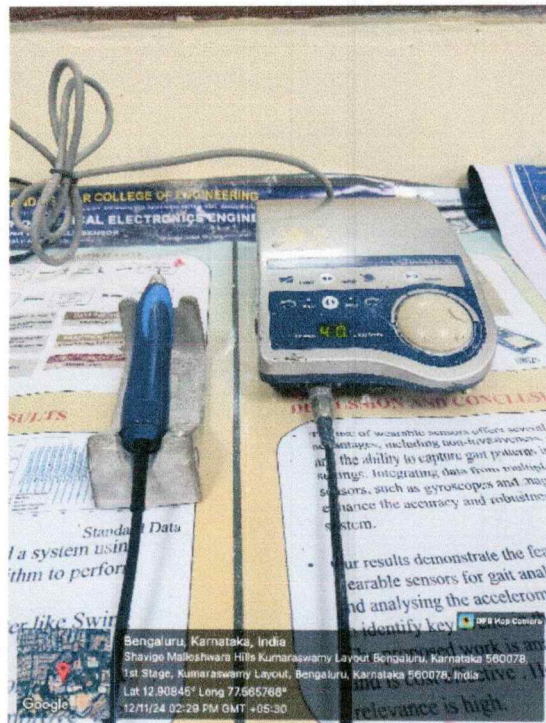


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5.POLISHING LATHE: used to polish appliances



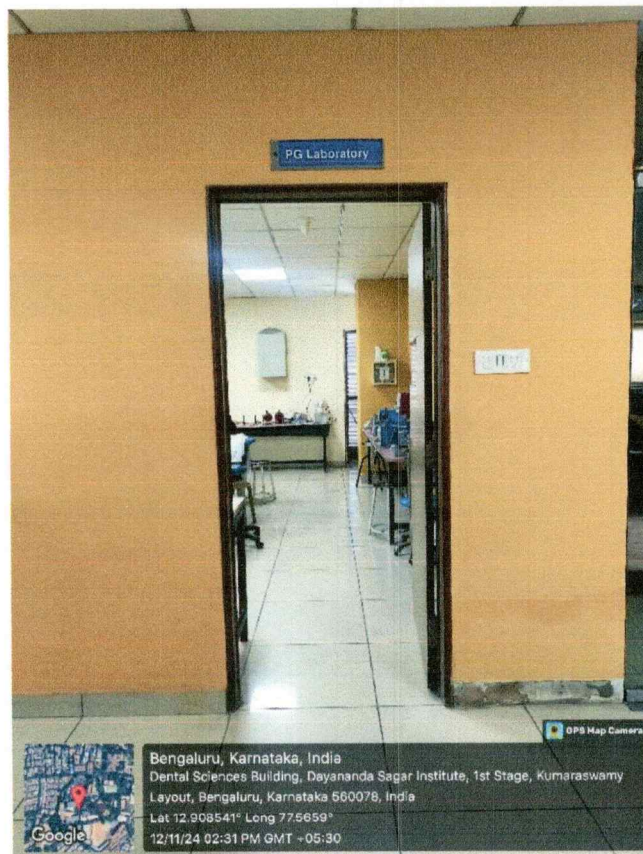
6.MICROMOTOR HANDPIECE. • For trimming of appliances



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7. WELDING MACHINES IN CLINICS



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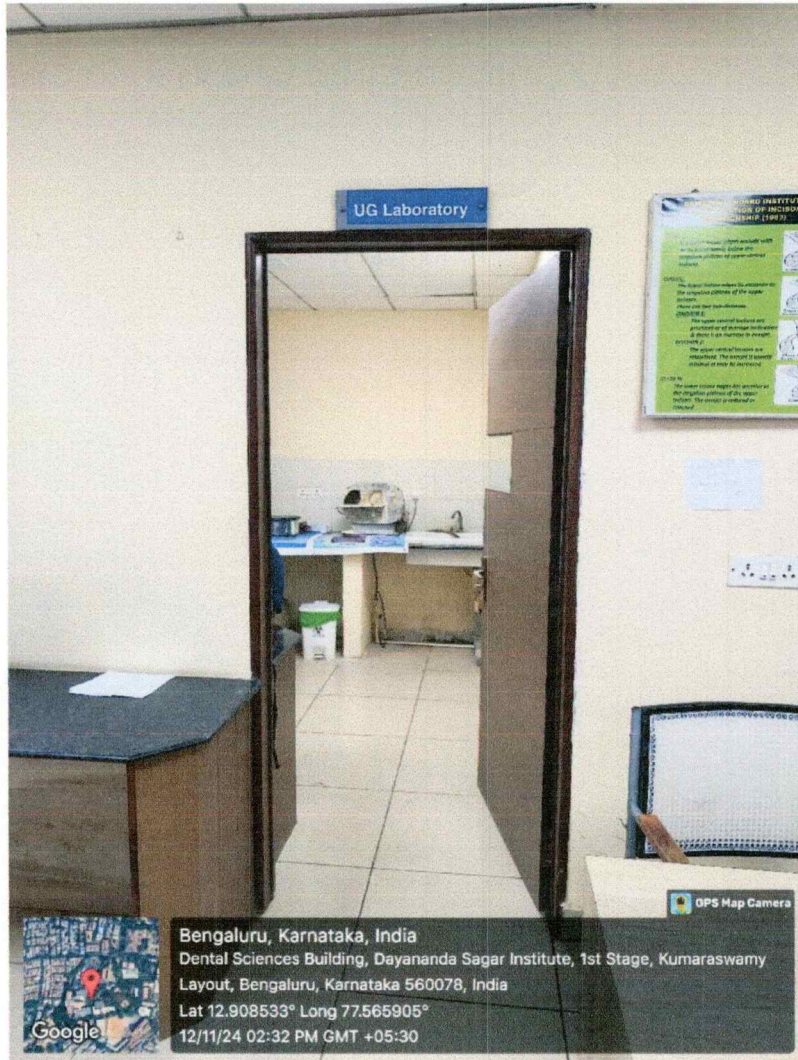
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List of lab facilities used in - Department of Anatomy

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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List of lab facilities used in 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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List of lab facilities used in Department of Histology

Microscopes	35	
Wooden Tables	4	
Tubelights for microscopes	8	
Total	47	

These helps in the

- Microscopic examination of anatomical structures

List of lab facilities used in 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


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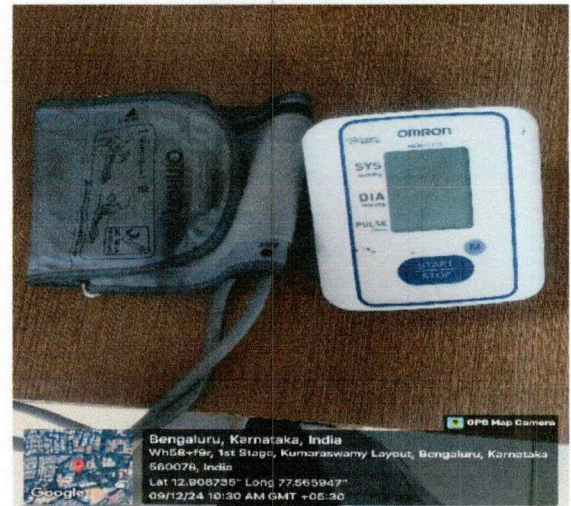
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List of lab facilities used in Department of Physiology

SL.No	Particulars	Qty
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	Spirometr	1
10	Examination couch	1
11	Bicycle ergometer	1
12	Westergrens tube with stand	1
Total		92

These equipments helps in

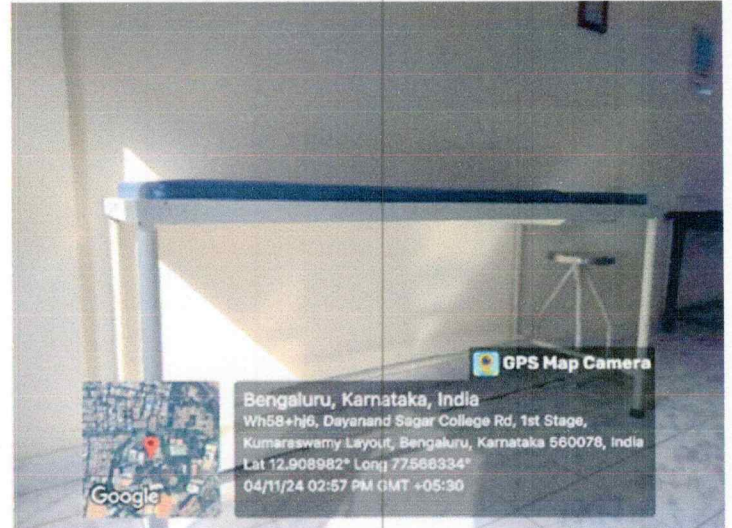
- Examination of Blood and blood pressure



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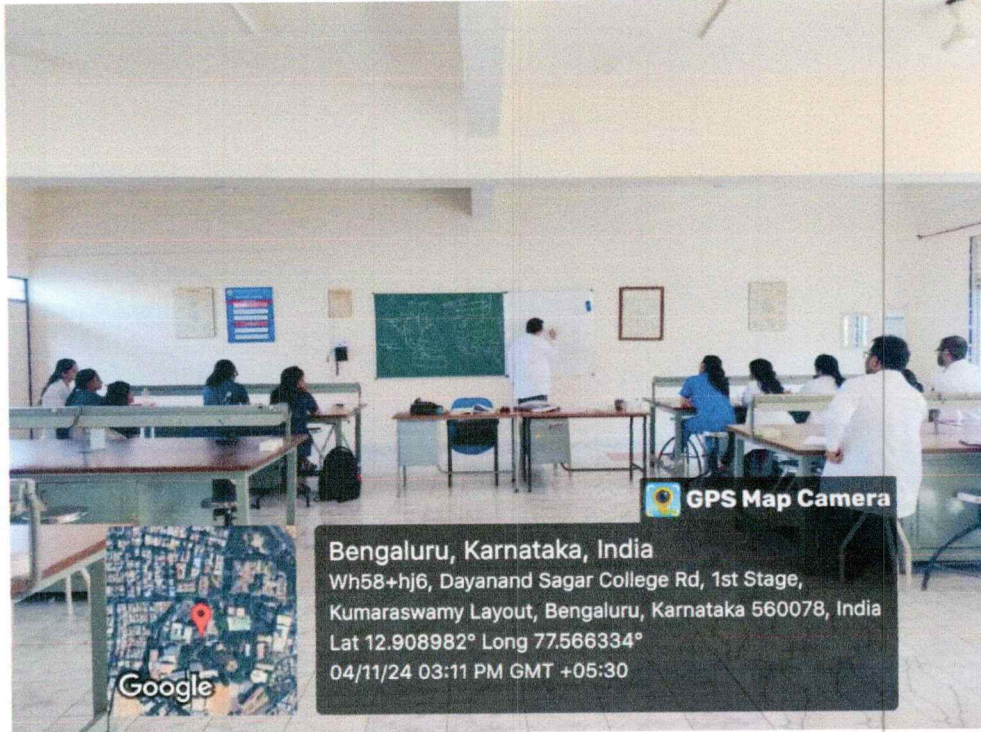
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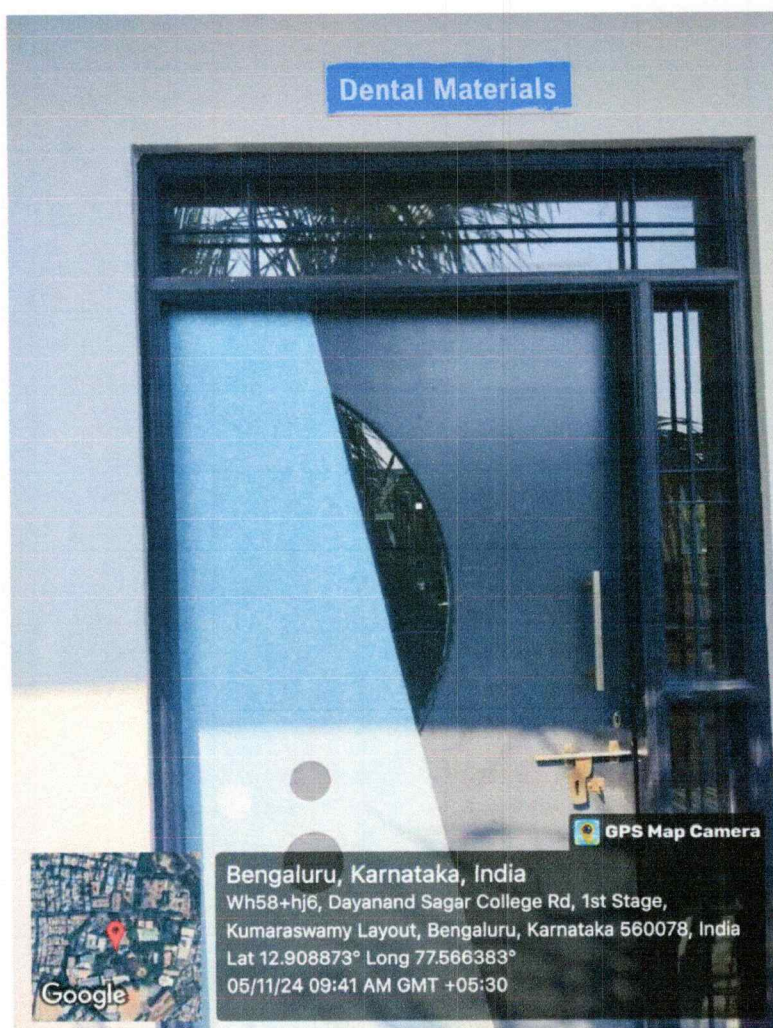
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List of lab facilities used in Department of Dental Materials

SL.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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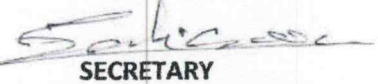
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TO WHOMSOEVER IT MAY CONCERNED

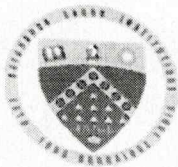
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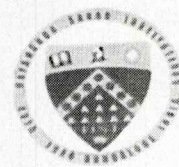
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SL No	1	2	3
Title	Evaluation of Clinical Periodontal Parameters and Pro-Resolvin Mediators Eicosapentanoic acid (EPA) and Docosahexaenoic acid (DHA) in Gingival Crevicular Fluid (GCF) with Flax Seed Extract gel as Local Drug Delivery in Treatment of Stage 2 and Stage 3 Periodontitis Patients : A Randomised Controlled Trial	Assessing The Efficacy Of Pine Oil In Comparison To Xylene As a Clearing Agent In Tissue Processing – A Comparative Study	"Effect Of Curd, Green Tea And Saliva On The Tensile Strength Of Absorbable And Nonabsorbable Surgical Suture Materials –An Invitro Study"
Year Of Study	2024- 25	2024-25	2024-25
UG/PG STUDENT	Dr.Jisha Raj	Trishika M	Ananya C
GUIDE	Dr.Savita A M	Dr.Sangeetha R	Dr Archana Naik
Herbal Garden name with address	Dayananda College of Pharmacy	Dayananda College of Pharmacy	Dayananda College of Pharmacy

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Herbal Garden

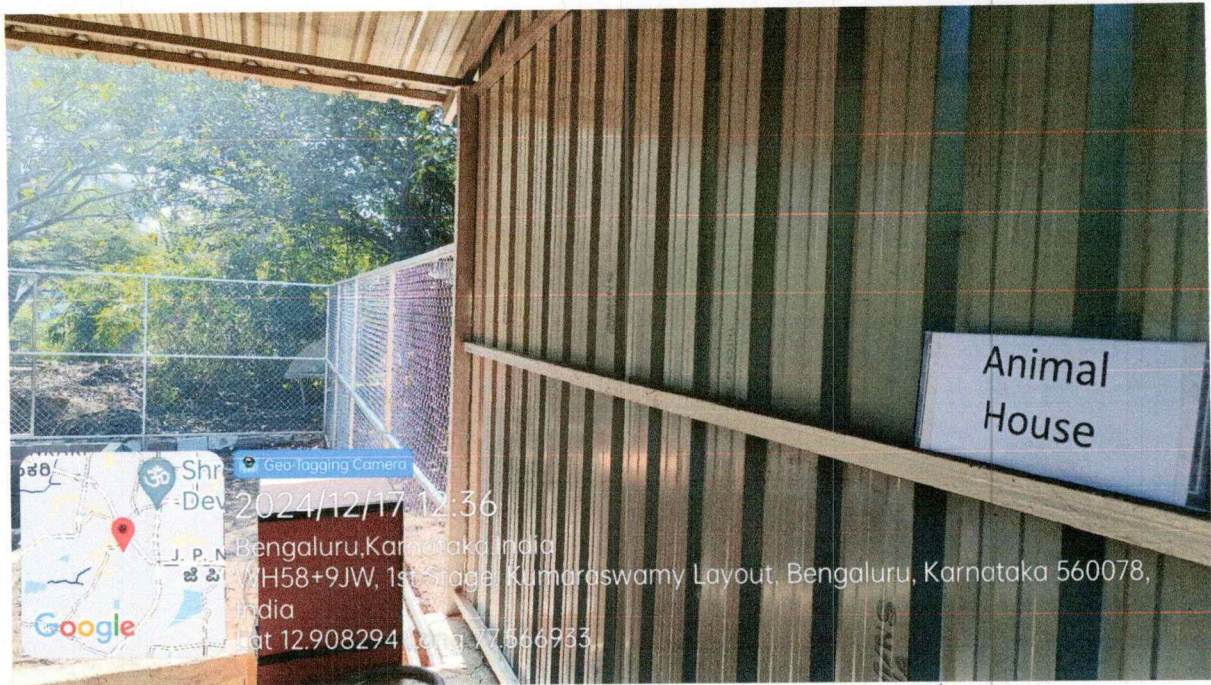


Herbal garden is well maintained in a dedicated space for growing medicinal plants which aids in teaching, learning and research activities.


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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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