

DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

Environmental Facilities:

Undergraduate Clinic

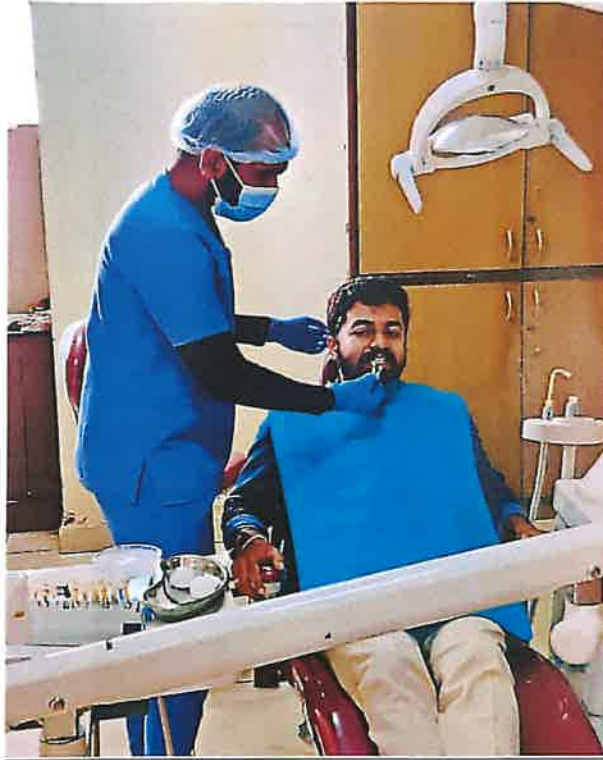


Postgraduate Clinic



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Kumaraswamy Layout,
Bangalore - 560 078.

Esthetic Clinic



Seminar room



Bengaluru, Karnataka, India

WH58+FGV, 1st Stage, Kumaraswamy Layout, Bengaluru, Karnataka 560078, India

Lat 12.908644°

Long 77.566207°

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GPS Map Camera

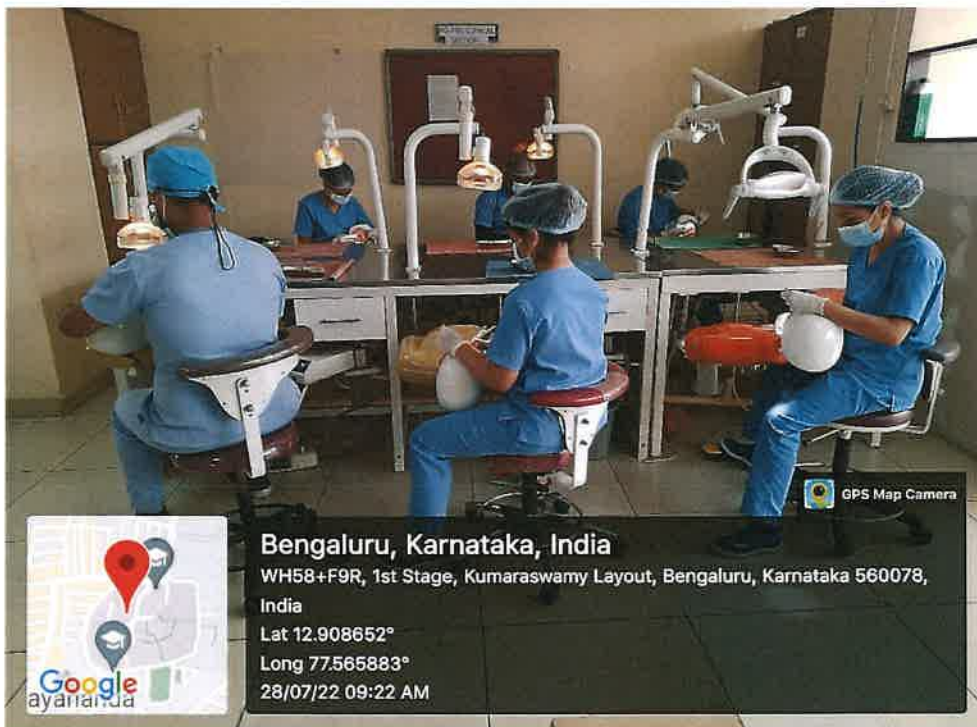
DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES
KUMARASWAMY LAYOUT, BANGALORE - 560 078

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Kumaraswamy Layout,
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Undergraduate Pre-clinical Lab



Postgraduate Pre-clinical Lab



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Amalgam and Inlay cavity preparations and restorations on Typhodonts

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Pre-Clinical Skill Models:



Major Equipment



1)Dental Operating Microscope:

The department uses a dental operating microscope which greatly enhances a clinician's ability to view the tiniest details inside a patient's tooth. By magnifying vision up to 25 times that of the naked eye, the dental microscope is useful in both diagnosis and treatment


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2) Portable X-ray unit:



The department is equipped with Vatech Portable x-ray unit, lightweight and efficient to use in the department. Patients will not have to move around for a radiograph. Fast, efficient and simple to use.

3) Digora Scanner(PSP)



The department is equipped with the fast, direct and ingeniously digital imaging plate system. Consistently provides images with high detail and excellent contrast. The DIGORA Optime scans imaging plates automatically, with optimized images displayed in seconds. Featuring a film-like workflow, the system is easy to incorporate into any dental practice and automatic scanning means there are no buttons to press

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4)X-ray Machine



The department is equipped with a fixed X-ray unit in the microscope room. This enables fast and easy process for taking radiographs.

5)Philips ZOOM LED Bleaching Unit



The department is equipped with the Philips ZOOM LED Whitespeed unit is an in office adjunct accelerator for bleaching procedures. It can help in achieving 8 times faster results than home bleaching

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6)Endomotor



The department is equipped with Woodpecker Endogold endomotor which is a Wireless handpiece enables more convenient operation. Adopts real-time feedback technology and dynamic torque control, effectively preventing needle breakage

7)Apex locator



The department is equipped with The Apex ID which is compact and modern with unique functions that has been designed to work in almost any canal condition: dry, wet, bleeding or filled with saline, EDTA, NaOCl or chlorhexidine.

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10) Thermoplasticized Obturating Unit



The department is equipped with The Elements Obturation Unit, it is a portable endodontic unit combining the System B heat source with a motorized extruder handpiece. It may be used for filling root canals using the "Continuous Wave of Condensation" or other warm gutta percha techniques

11) Autoclave



The department is equipped with horizontal autoclave comprising of a sterilization chamber, boiler, piping and fitting, sensors and control panel.

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Principal
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12)Electrocautery Unit




The department is equipped with PerFect TCS II is a high frequency electrosurgery system(Tissue contouring system), which helps to manage soft tissue with greater efficiency, greater precision and less bleeding than the common dental scalpel

13)Ultrasonic unit



The department is equipped with the Woodpecker UDS-E LED ultrasonic unit which has four-functions (scaling, perio, endo and auto-water supply). It is a ultrasonic piezo scaler with a detachable handpiece incorporating an LED light. The unit features automatic frequency tracking which ensures that it is always operating on the most efficient frequency for optimum performance. It also features a built-in 350ml capacity water container with an auto-water supply function for easier operation


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14) Distilled water plant



The department is equipped with a distilled water plant which provides clean distilled water for the use in dental chair thus improving its efficiency

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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

DEPARTMENT OF PERIODONTOLOGY

1. LASER UNIT



The department consists of laser unit which allows the operator to perform various minor surgical & non-surgical procedures

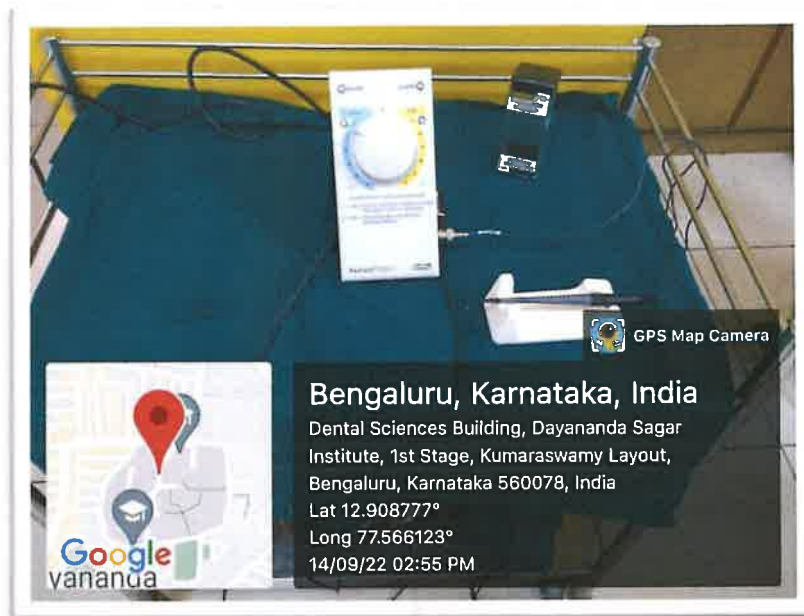
2. PHYSIODISPENSER



The department is equipped with Physiodispenser to help place dental implant

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3. TISSUE CONTOURING SYSSYTEM




The department consists of tissue contouring system which allows the operator to perform various minor surgical procedures.

4. ELECTROCAUTERY UNIT



The department consists of electro cautery unit which allows the operator to perform various minimally invasive surgery and microvascular surgery.


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7. VERTICAL AUTOCLAVE



The department consists of Vertical autoclave, also known as steam sterilizers and top loading sterilizers, is a sterilizing machine that comes in a cylindrical shape. These machines help in sterilization of surgical instruments. All parts and components are jointed and fitted on a stand; this makes a complete floor mounted unit.

8. CENTRIFUGE MACHINE



The department consists of centrifuge machine to prepare platelet concentrates which have numerous growth factors which will help in regeneration.

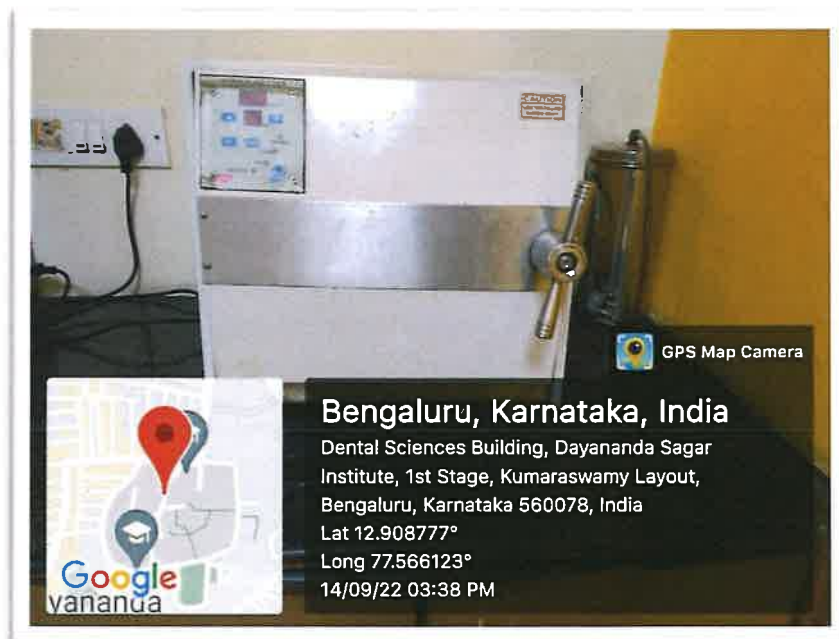

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5. NEEDLE BURNER



The department possesses needle burner. The Needle Burner Syringe Destroyer is the safest way to dispose of used needles. The device is built to burn the needle and cut it both in the same hole.

6. HORIZONTAL AUTOCLAVES



The department is equipped with horizontal autoclave comprising of a sterilization chamber, boiler, piping and fitting, sensors and control panel


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9. AIR POLISHING DEVICE



The department consists of air polishing device used for periodontal pocket disinfection

10. IMPLANT MAINTENANCE KIT



The department has Implant maintenance kit which helps in maintaining the dental implants which is a part of maintenance phase of treatment planning.


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12. ULTRASONIC CLEANER.



The Department's instruments are cleaned in an ultrasonic cleaner. This type of unit removes bioburden by using sound waves generated by electrical energy

13. DISTILLED WATER PLANT

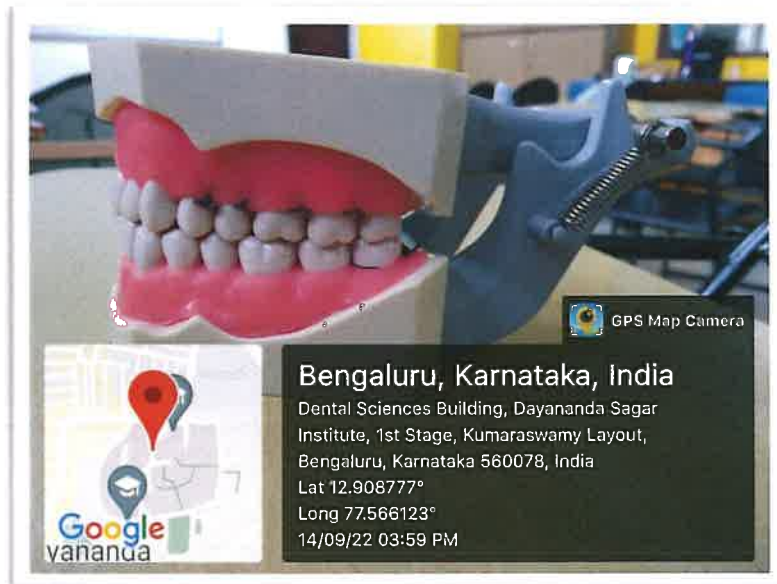
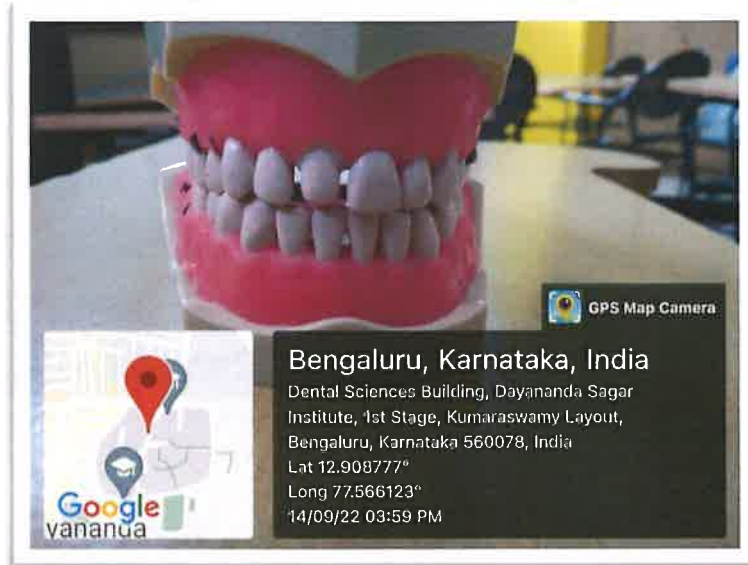


The department's distilled water plant removes minerals and microbiological contaminants and can reduce levels of chemical contaminants. It is used for ultrasonic scaling units & autoclave

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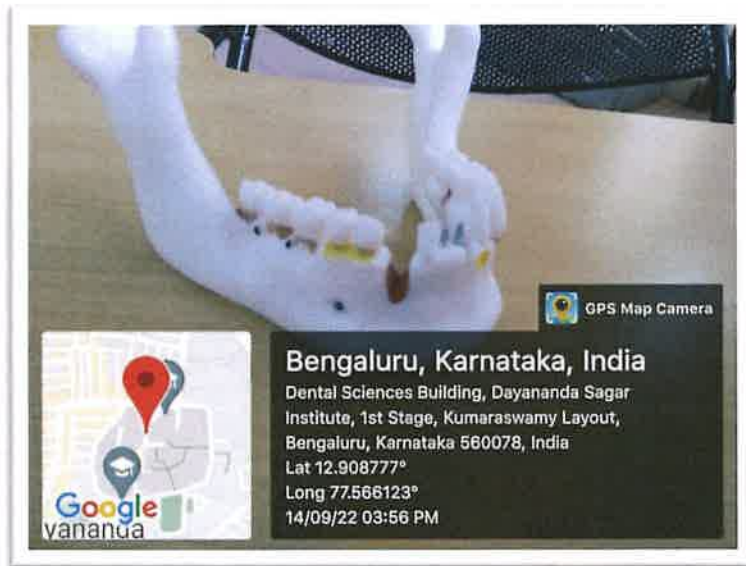
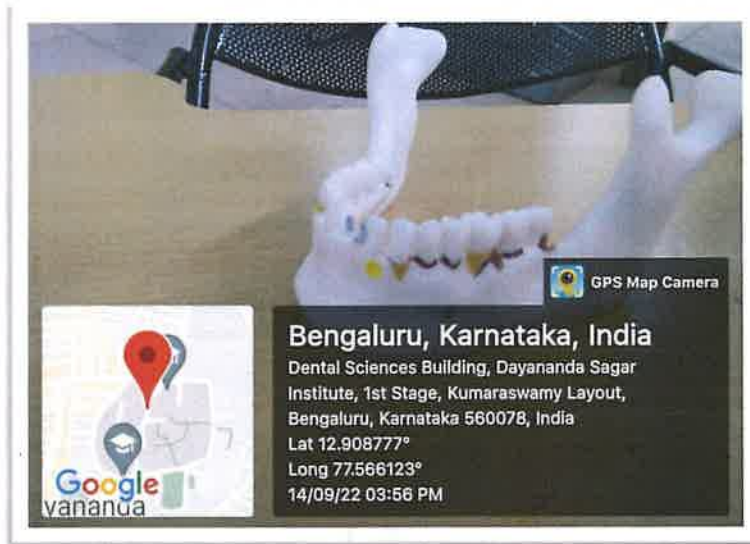
CLINICAL SKILL MODELS

1. SUTURING CASTS



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2. PERIODONTAL DISEASE MODELS



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www.dental-science.com
Dental Sciences Building, Dayananda Sagar
Institute, 1st Stage, Kumaraswamy Layout,
Bengaluru, Karnataka 560078, India

FACILITIES

1. UNDERGRADUATE CLINIC



2. POST GRADUATE CLINIC



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3. MINOR OT



4. SEMINAR ROOM



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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

LIST OF EQUIPMENTS IN DEPARTMENT.

Image 1: Autoclave in the department



Image 2: Pulp tester



Image 3: Ultrasonic scaler



Image 4: Water distiller



Image 5: Light cure unit



Image 6: Pouch sealer



Image 7: UV Chamber

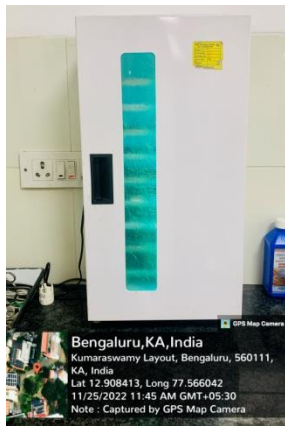


Image 8: Ultrasonic Cleaner



Image 8: Speaker and Cordless microphone



Image 8: Corona Guard



Image 9: Overhead LCD projector



Image 10: Hand dryer

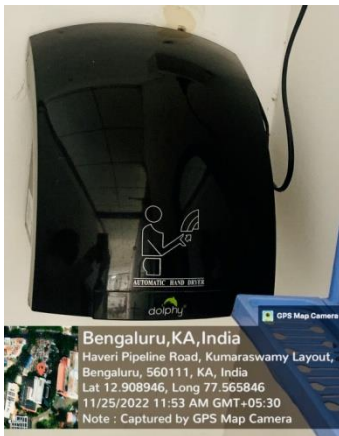


Image 11: Generator in MDU



Image 12: TV in MDU



Image 13: Compressor in MDU

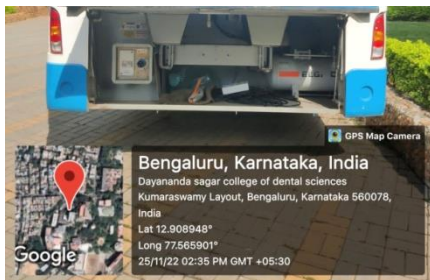


Image 14: Blower in MDU

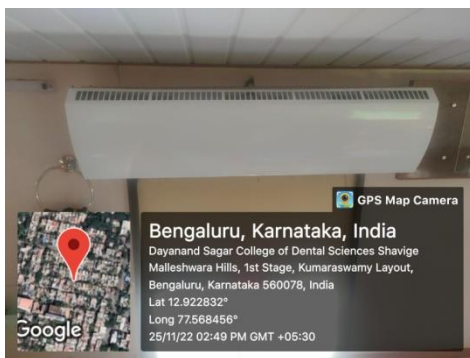
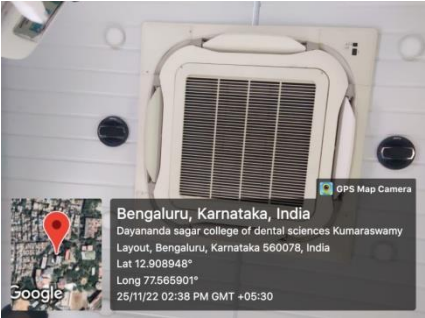



Image 15: AC in MDU



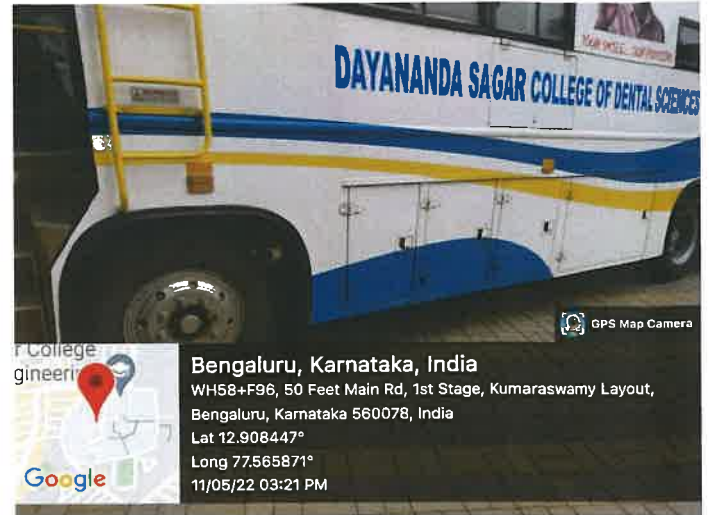
FACILITIES

1. CLINIC AREA



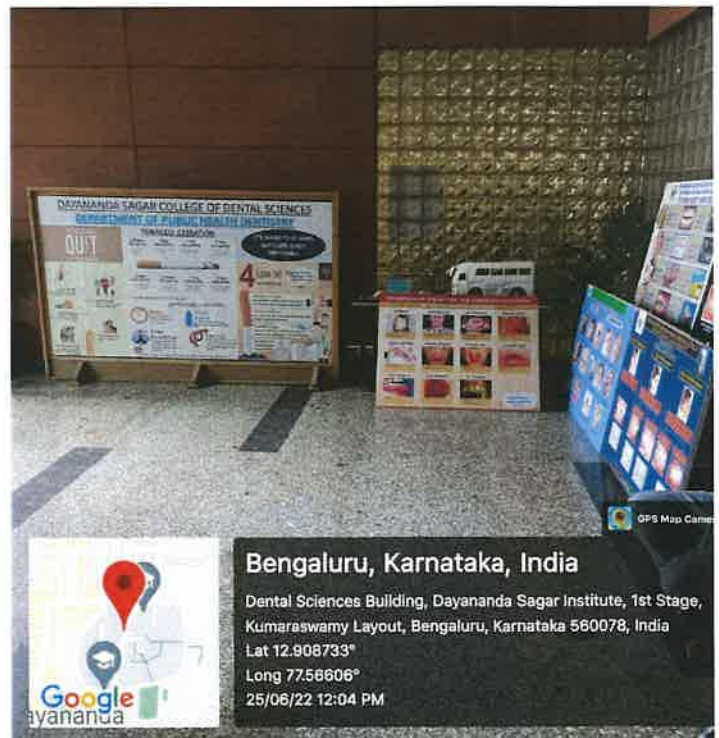
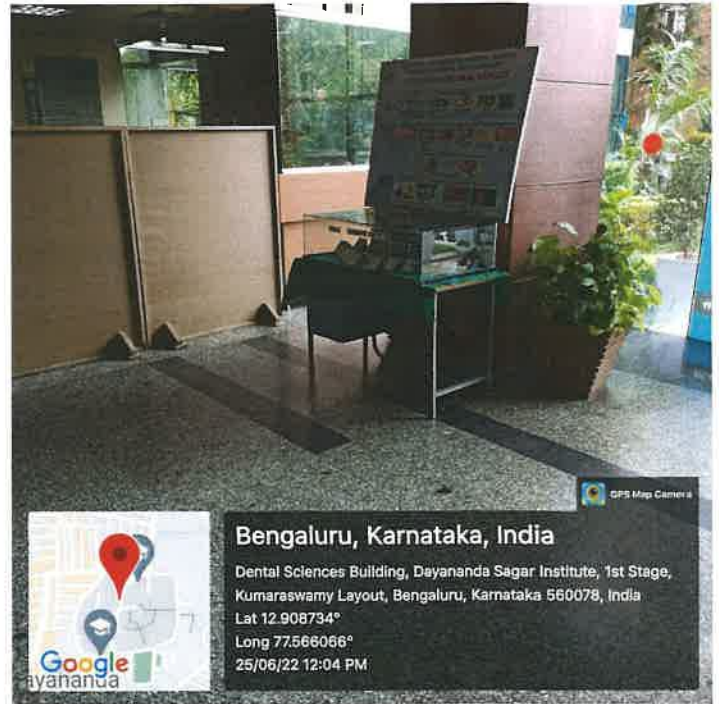
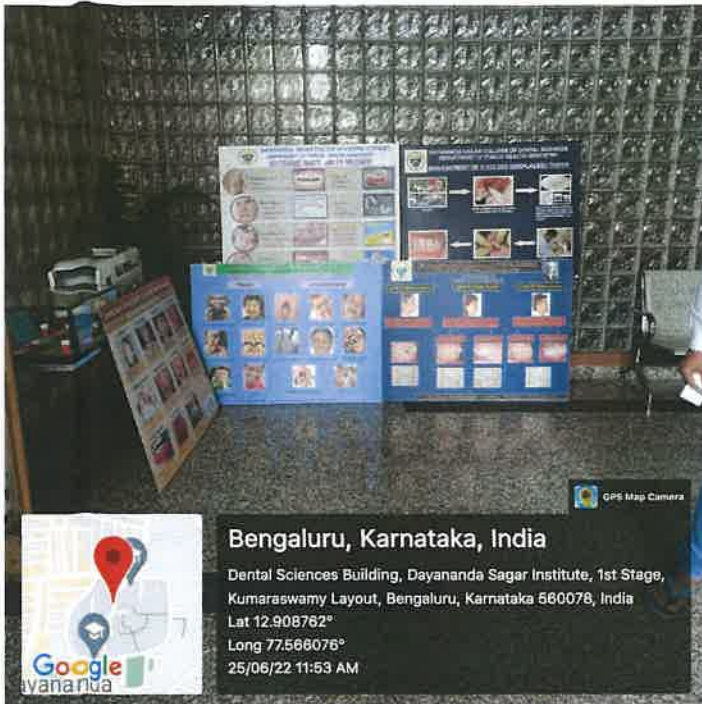

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2. MOBILE DENTAL CLINIC

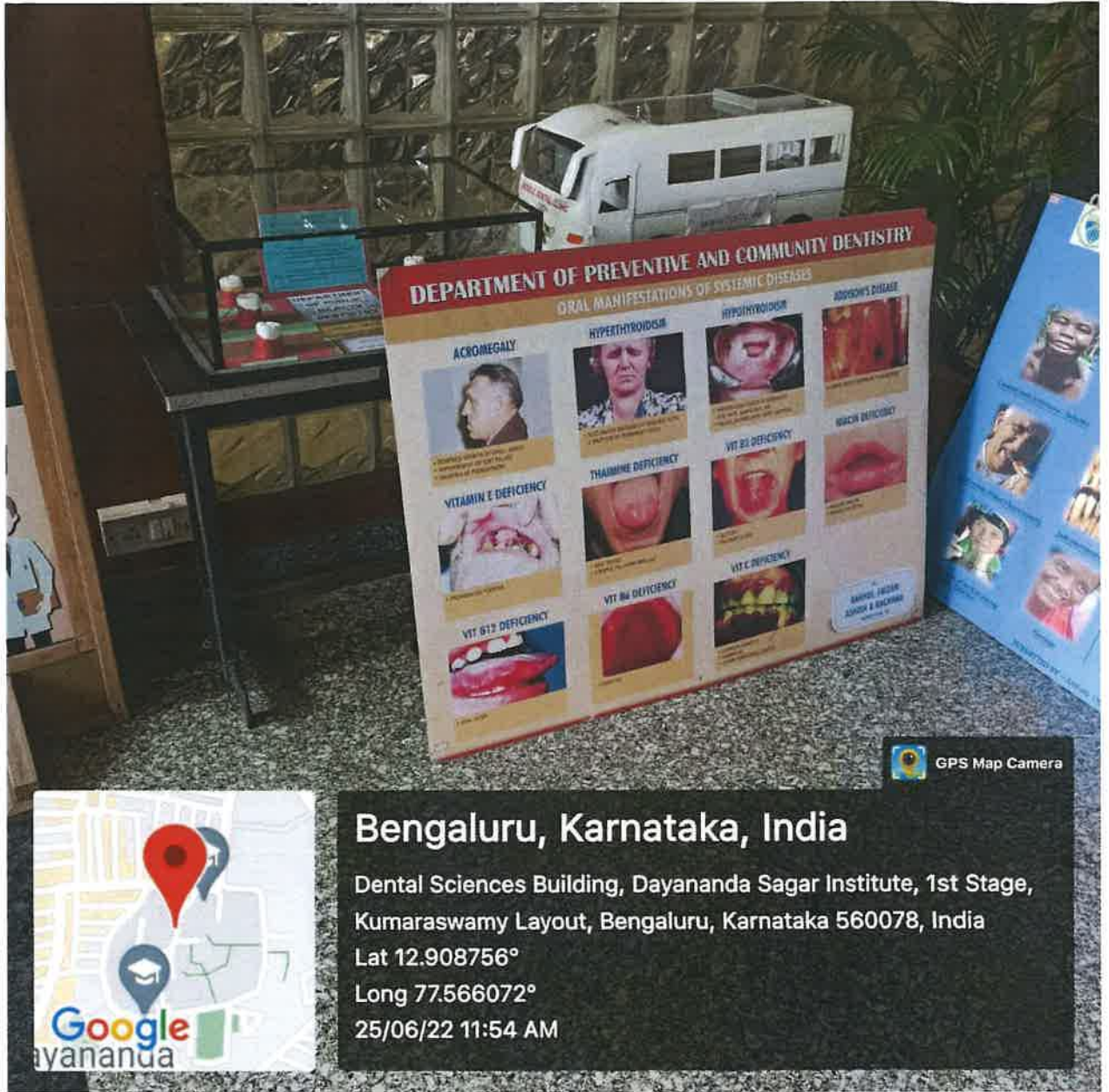


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3. INFORMATIVE MODELS



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Bengaluru, Karnataka, India

Dental Sciences Building, Dayananda Sagar Institute, 1st Stage,
Kumaraswamy Layout, Bengaluru, Karnataka 560078, India

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DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

1. Piezoelectric unit



The department consists of Piezo surgical unit which allows the operator to perform clear-cut precise osteotomies in a bloodless field without the risk of damaging soft tissues and nerves.

2. Physiodispenser



The department is equipped with Physiodispenser to help us embed the implants into the bone.

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3. Portable x ray Unit



The department consists of portable X-ray machine (Monoblock). The state-of-the-art high-frequency technology offers high performance in miniature format using only a standard power connection (220V/110V). Its low weight, user-friendly operation and the integrated interface for using the portable unit with a digital X-ray system enable various fields of application under field conditions.

4. Cryosurgical



The department also consists of cryosurgical unit. A cryoprobe is cooled with substances such as liquid nitrogen, liquid nitrous oxide, or compressed argon gas. Cryosurgery may be used to treat certain types of cancer and some conditions that may become cancer. Also called cryoablation and cryotherapy.

H. S.
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5. Needle burner



The department possesses needle burner. The Needle Burner Syringe Destroyer is the safest way to dispose of used needles. The device is built to burn the needle and cut it both in the same hole.

6. Implant Kit



The department is equipped with implant kit. This handy, comprehensive implant kit is easy to use, saves you time in surgery, facilitates drilling, and makes it easier to close up the implant. Color coding makes drill bits easy to identify, and they can be cleaned and sterilized as well.

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7. Sinus lift



The department consists of sinus lift kit. The kit is used to aid in the lifting up of the sinus cavity for implant site preparation specially for crestal & lateral approach. These sinus lift elevators are used for safely lifting the membrane while performing any sinus augmentation surgery or (maxillary sinus surgery).

8. Portable Suction Apparatus



The department consists of portable suction apparatus. It is primarily used for removing obstructions — like mucus, saliva, blood, or secretions.


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9. Fog sanitizer



10. Autoclaves



The department is equipped with horizontal autoclave comprising of a sterilization chamber, boiler, piping and fitting, sensors and control panel.

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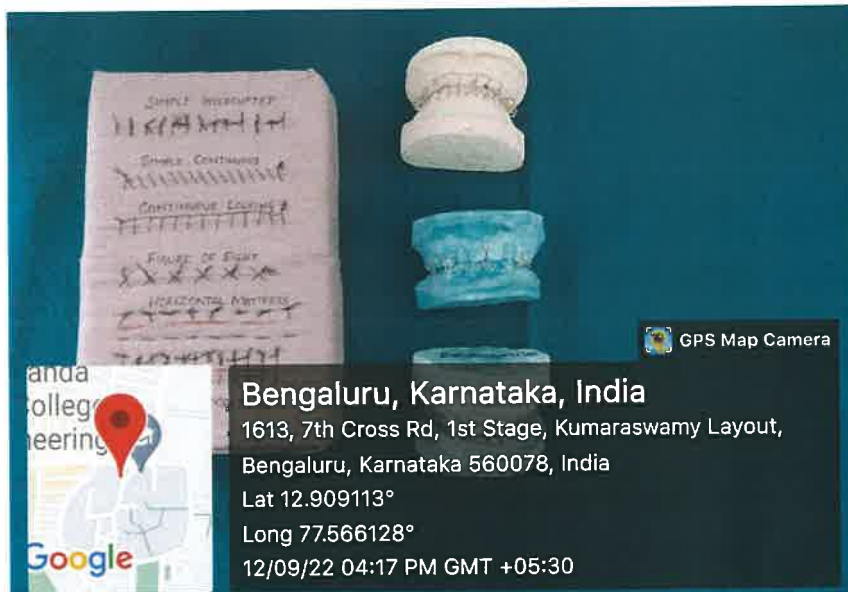


The department consists of Vertical autoclave, also known as steam sterilizers and top loading sterilizers, is a sterilizing machine that comes in a cylindrical shape. These machines help in sterilization of of surgical instruments. All parts and components are jointed and fitted on a stand; this makes a complete floor mounted unit.

Mr.
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CLINICAL SKILL MODELS



- Suturing pillow, casts for wiring



- Dummy mandible for practicing implant placement, casts for cap splint and gunning splints

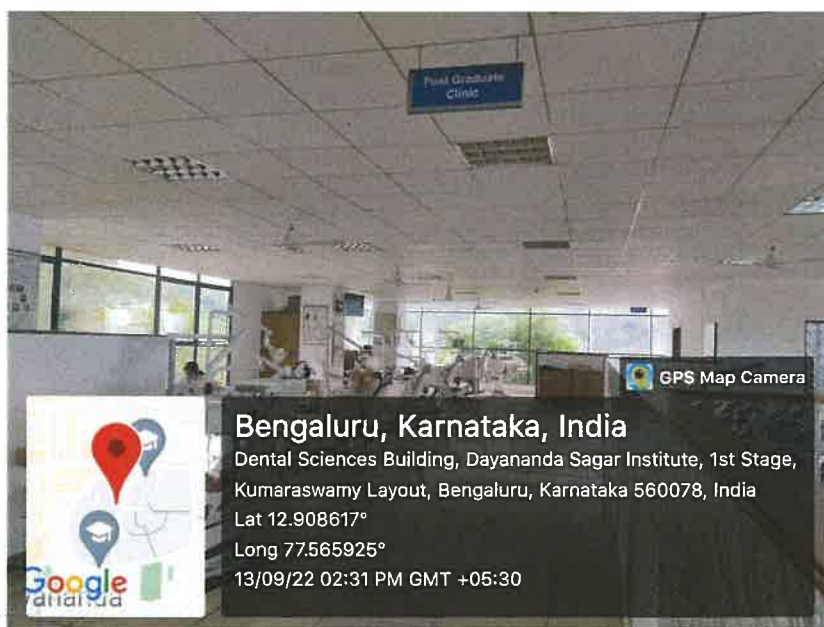

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FACILITIES

Undergraduate clinic



Postgraduate Clinic



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Minor Operation Theatre

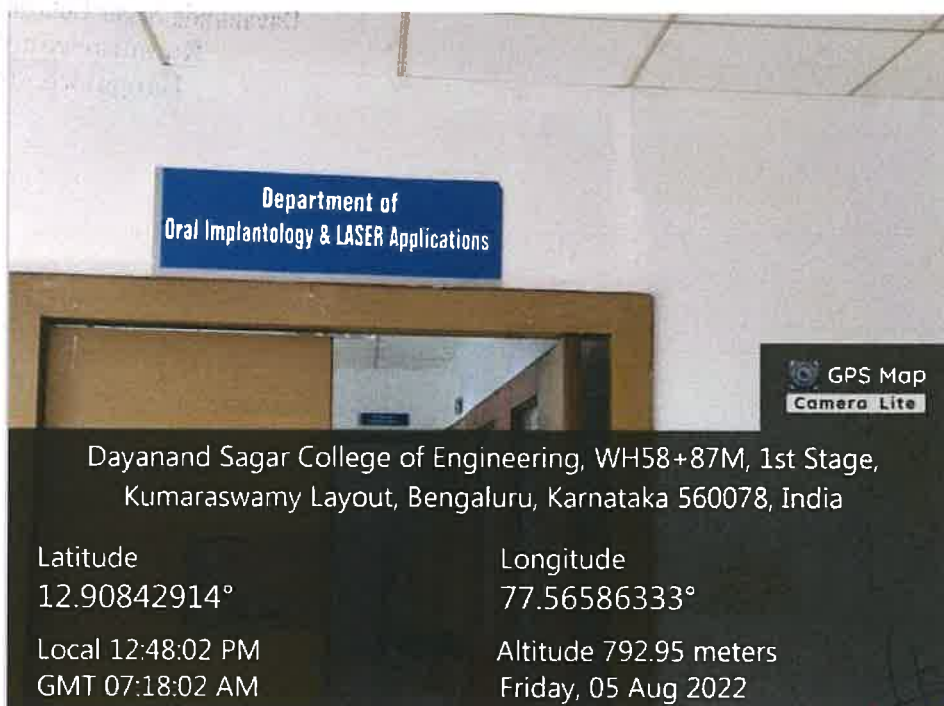


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Bengaluru, Karnataka, India
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Bengaluru, Karnataka 560078, India
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Implantology clinic



Dayanand Sagar College of Engineering, WH58+87M, 1st Stage,
Kumaraswamy Layout, Bengaluru, Karnataka 560078, India

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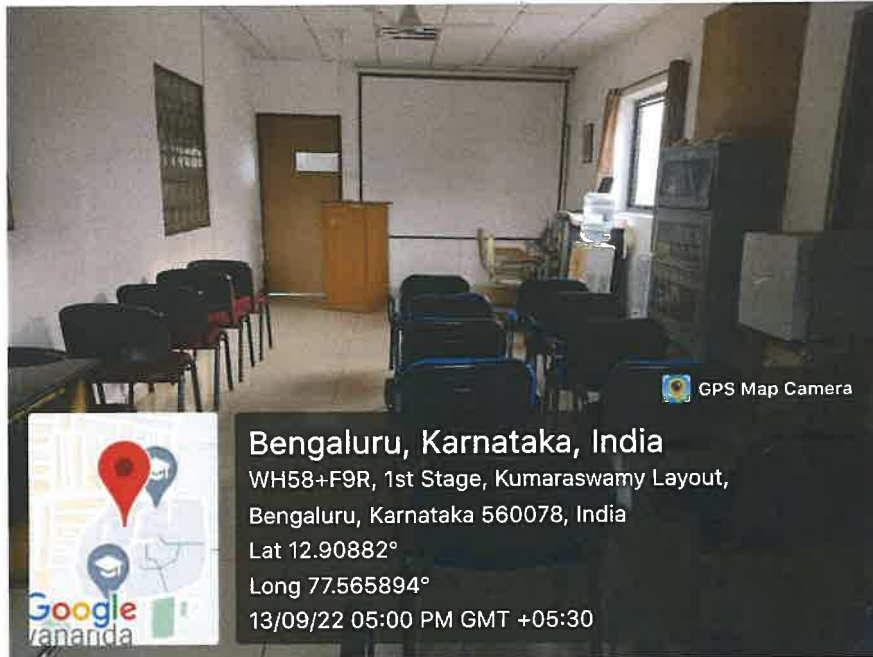
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GMT 07:18:02 AM

Altitude 792.95 meters
Friday, 05 Aug 2022

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Bangalore - 560 078.

SEMINAR ROOM

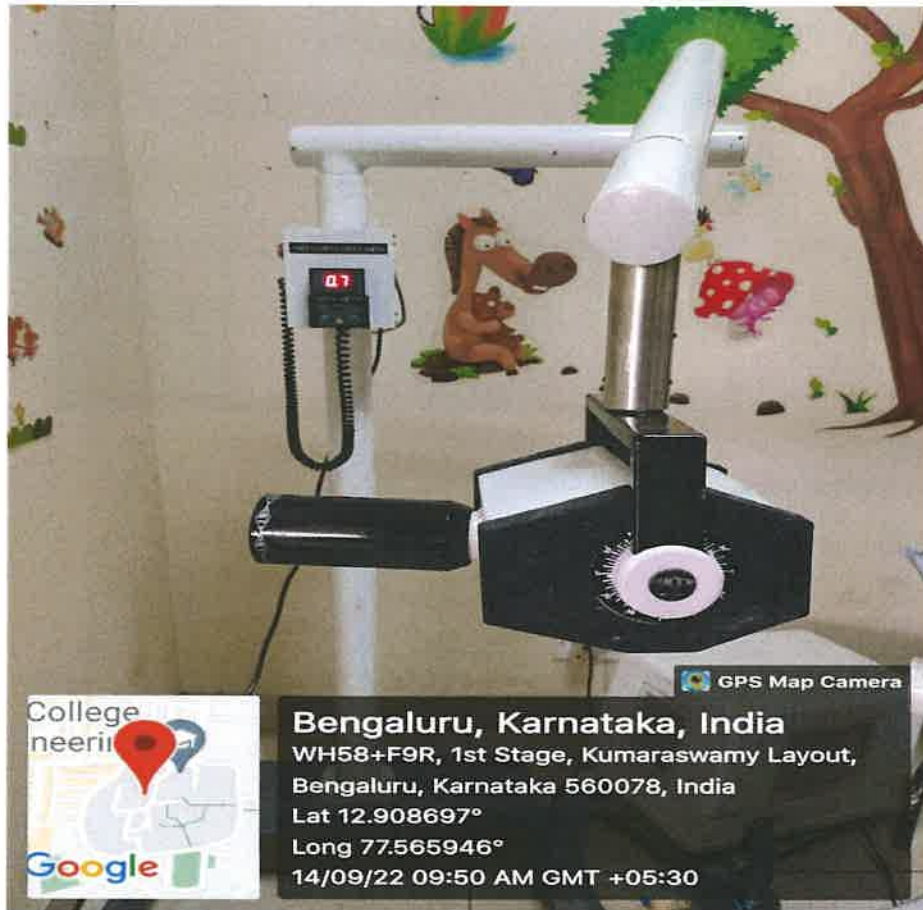


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DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

1. List of all the major equipment's present in the department:

Dental X-ray unit:



Dental X ray helps to see the condition of your teeth, roots, jaw placement and facial bone composition. They also help them find and treat dental problems early in their development.


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Dr. S. S. Srinivas
Principal
Dayananda Sagar College of Dental Sciences
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2) Clinical Skill Lab:

A) Carving Area



B) Clinical Skill models-

Demonstrations given to ug students-



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C) UG Area:



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 Dental Sciences Building, Dayananda Sagar Institute, 1st Stage,
 Kumaraswamy Layout, Bengaluru, Karnataka 560078, India
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 Long 77.566028°
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Bengaluru, KA, India
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Department Museum



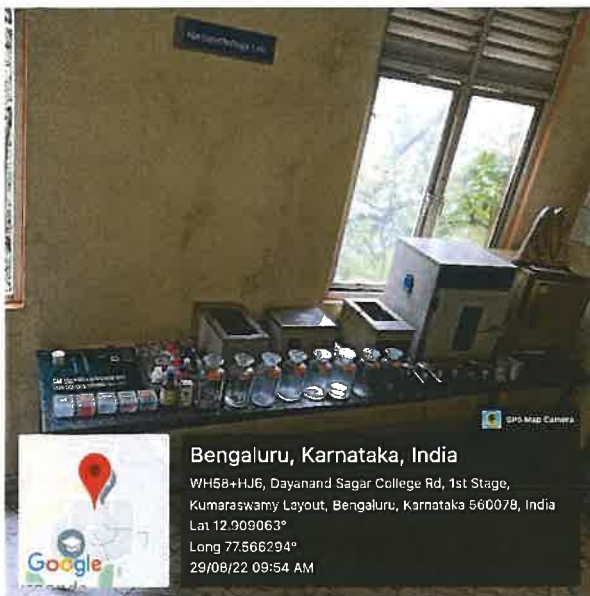
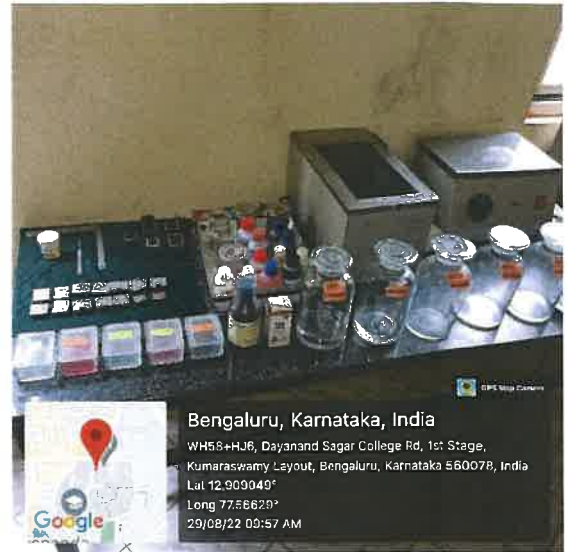
Department Library



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Bangalore - 560 0

DEPARTMENT OF ORAL PATHOLOGY

The department has a well equipped histopathology lab .

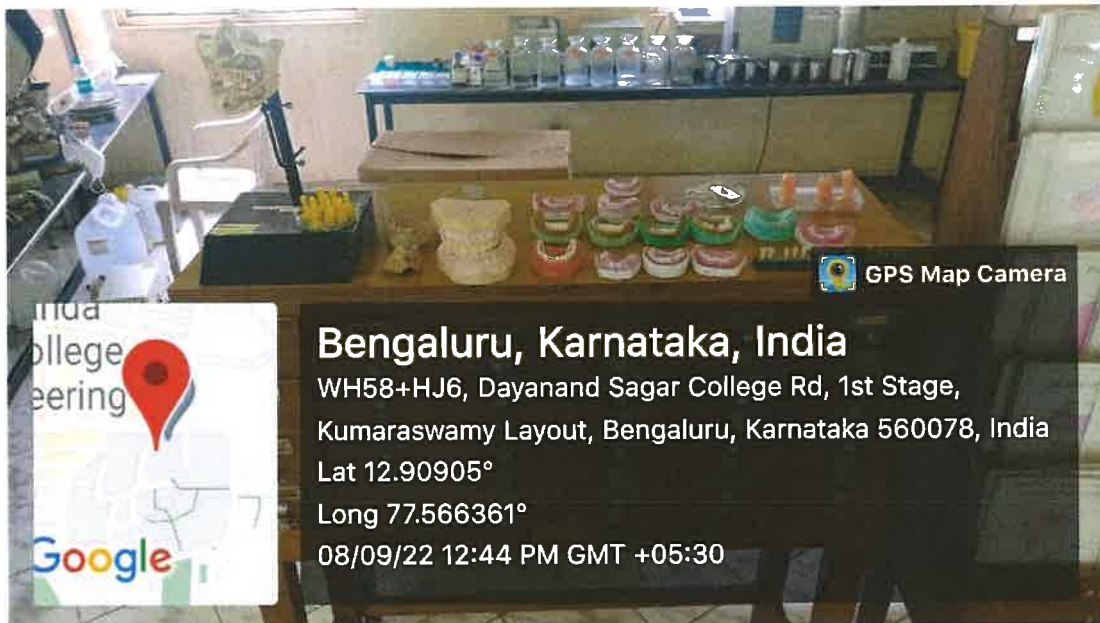



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CLINICAL SKILL MODELS



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 Kumaraswamy Layout, Bengaluru, Karnataka 560078,
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 WH58+HJ6, Dayanand Sagar College Rd, 1st Stage,
 Kumaraswamy Layout, Bengaluru, Karnataka 560078,
 India
 Lat 12.909015°
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Tooth specimen showing anomaly



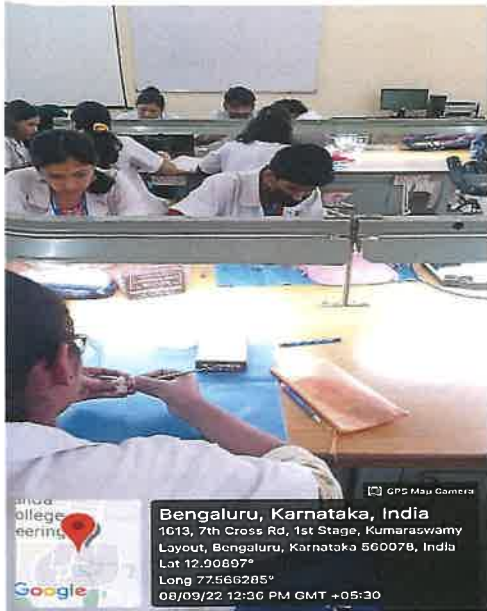
Cast showing developmental disturbances of teeth



Jaw study model

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Students carving tooth using wax blocks



A 4 Laminated sheets for classification and

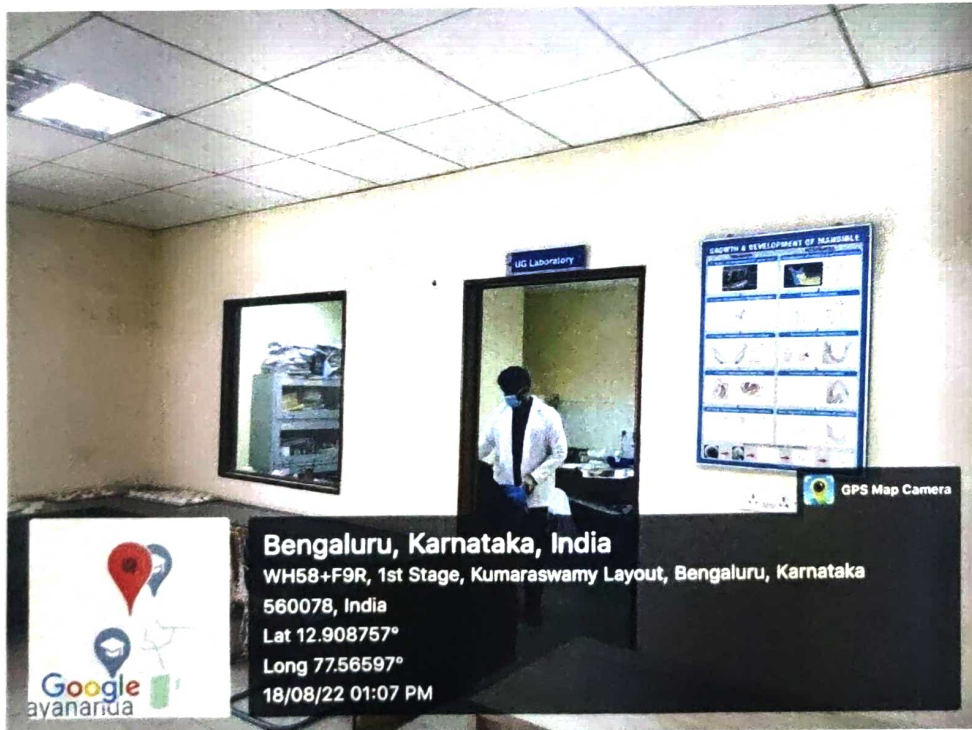
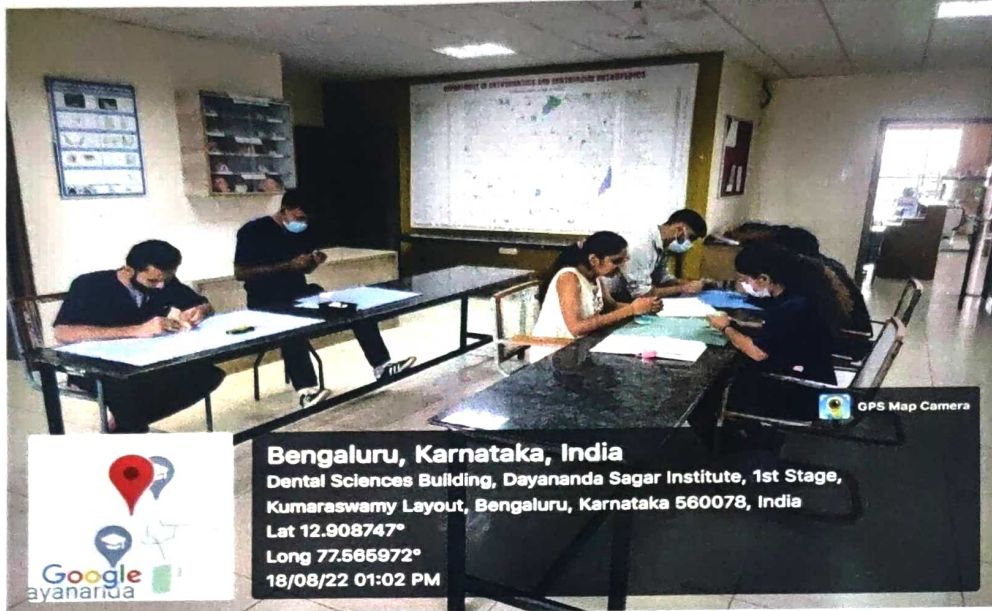


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DEPARTMENT OF ORTHODONTICS

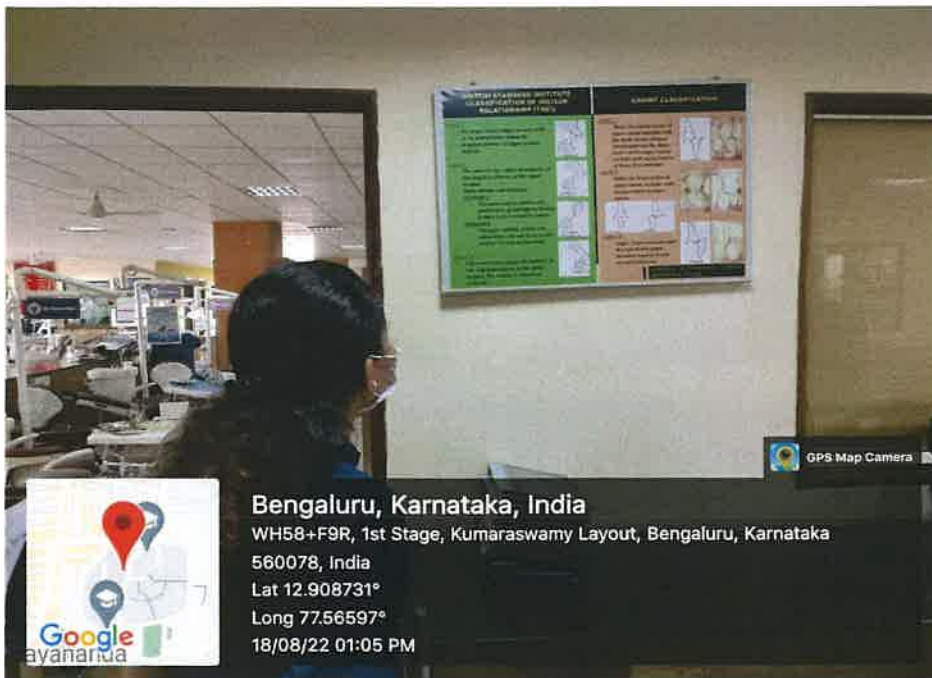
CLINICAL SKILLS LAB

1. UNDERGRADUATE LAB: A designated lab area is provided to undergraduate students. Pre-clinical exercises and other demonstrations are performed regularly



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2. Educational boards displayed all over the undergraduate lab




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BRITISH STANDARD INSTITUTE CLASSIFICATION OF INCISOR RELATIONSHIP (1983)

CLASS 1
The lower incisor edges occlude with or fit immediately behind the oblique planes of upper central incisors.

CLASS 2
The lower incisor edges fit posterior to the oblique planes of the upper incisors. There are two sub-divisions:
GROUP 1
The upper central incisors are proclined or of average inclination & there is an increase in overjet.
GROUP 2
The upper central incisors are retroclined. The overjet is usually minimal or may be increased.

CLASS 3
The lower incisor edges fit anterior to the oblique planes of the upper incisors.

CANINE CLASSIFICATION

CLASS 1
When the mesial incline of upper canine occludes with the distal incline of lower canine whereas the distal incline of the upper canine occludes with mesial incline of lower first premolar.

CLASS 2
When the distal incline of upper canine occludes with mesial incline of lower canine.

CLASS 3
Upper canine occludes with the mesial incline of lower first and second premolars.

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DEVELOPMENT OF FACE

2nd Week A. Head End just Before Formation Of The Frontonasal Process.

B. Formation Of Frontonasal Process.

4th Week Formation Of Mandibular And Maxillary Process.

6th Week Right And Left Mandibular Processes Fuse And Form The Boundary Of Future Mouth.

The Maxillary Process Extends Below The Head Pit And Fuses With The Medial Nasal Process.

14th Week Derivation Of Parts Of The Face

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KEYS OF NORMAL OCCLUSION

KEY 1 **Vertical Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same vertical plane.

KEY 2 **Horizontal Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same horizontal plane.

KEY 3 **Vertical Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same vertical plane.

KEY 4 **Horizontal Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same horizontal plane.

KEY 5 **Vertical Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same vertical plane.

KEY 6 **Horizontal Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same horizontal plane.

KEY 7 **Vertical Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same vertical plane.

KEY 8 **Horizontal Alignment**
The occlusal plane of the maxilla and the occlusal plane of the mandible are in the same horizontal plane.

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GROWTH & DEVELOPMENT OF MANDIBLE

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ORAL HABITS

DEFINITION: A habit is a frequent or constant practice or acquired tendency, which has been fixed by frequent repetition (Butlerworth).

CLASSIFICATION

Thumb Sucking

Mouth Breathing

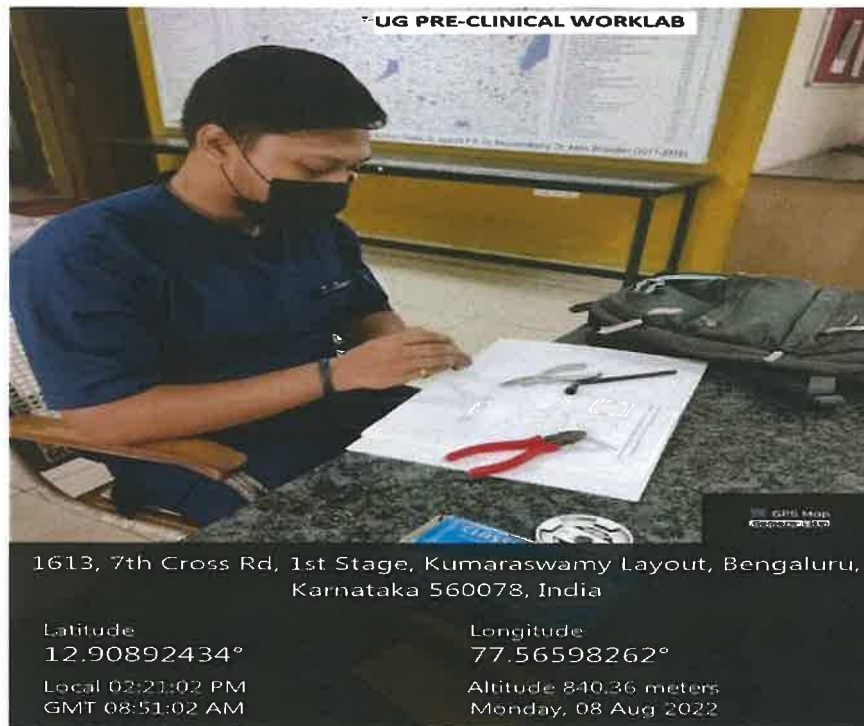
BRUXISM

TONGUE THRUSTING

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3. Undergraduate Students Working Area :



Undergraduate clinic



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UG TRACING AREA



POST-GRADUATE FACILITIES

1. PHOTOGRAPHY AREA: area for patient photography for maintenance of record purposes is provided



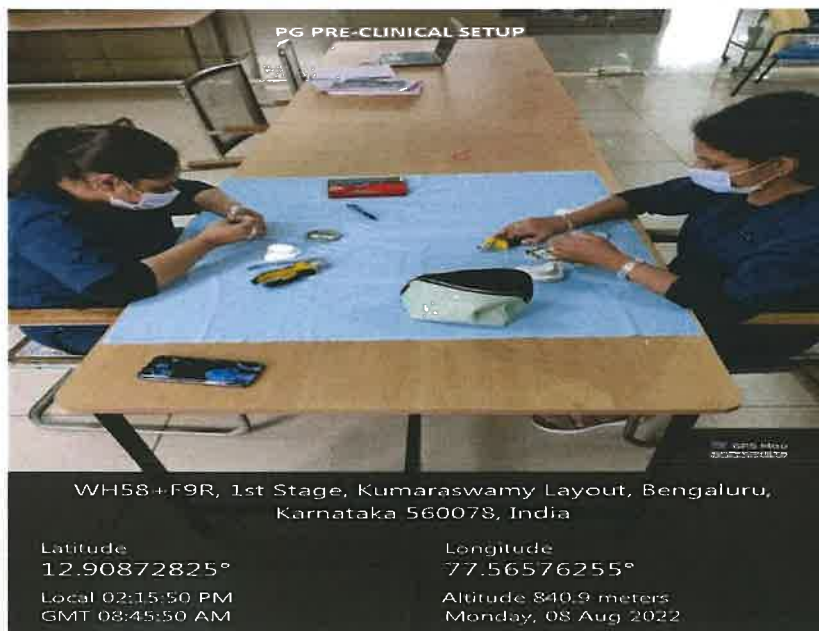
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2. digital imaging software: Nemoceph software for the purpose of predicting treatment outcomes

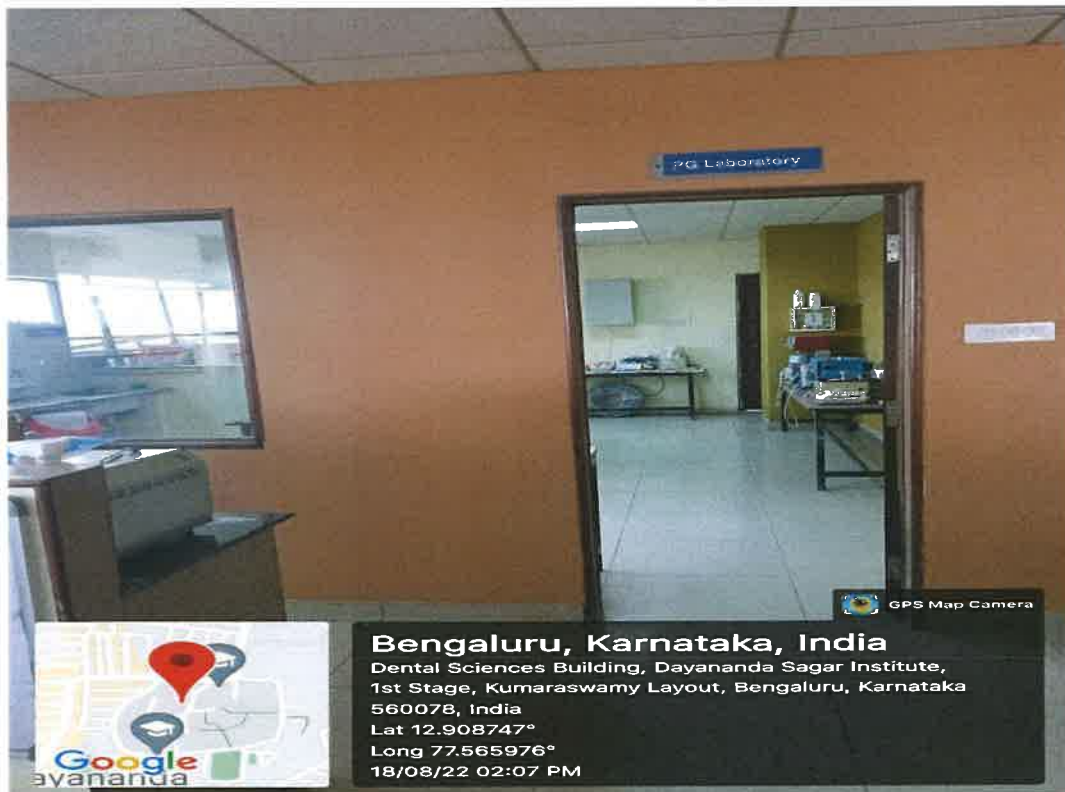
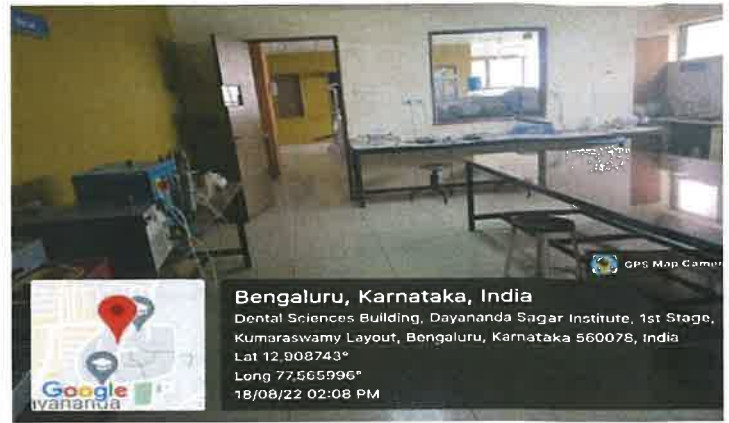


3. post graduate pre-clinical working area : students are provided with a separate area to perform all their pre-clinical exercises



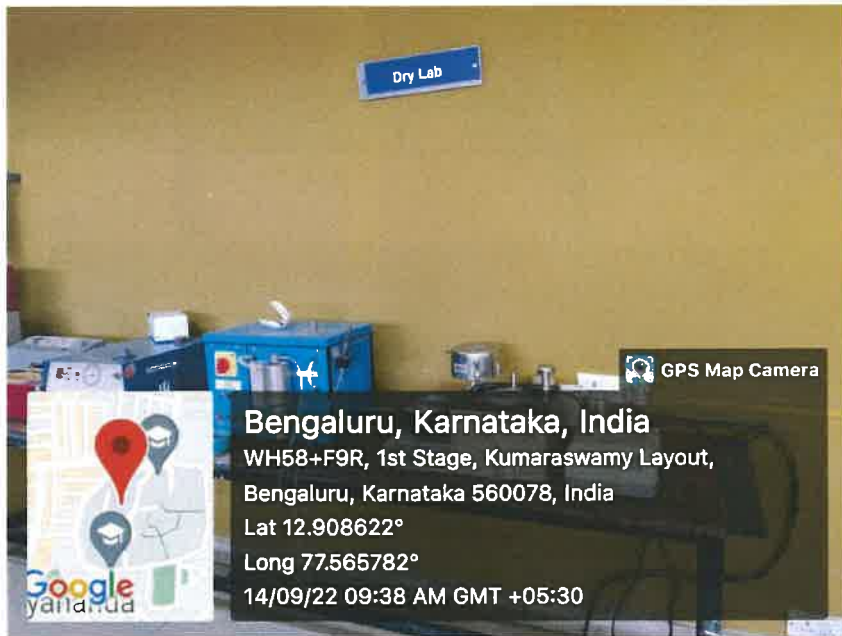

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4. Post-graduate laboratory




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DRY LAB



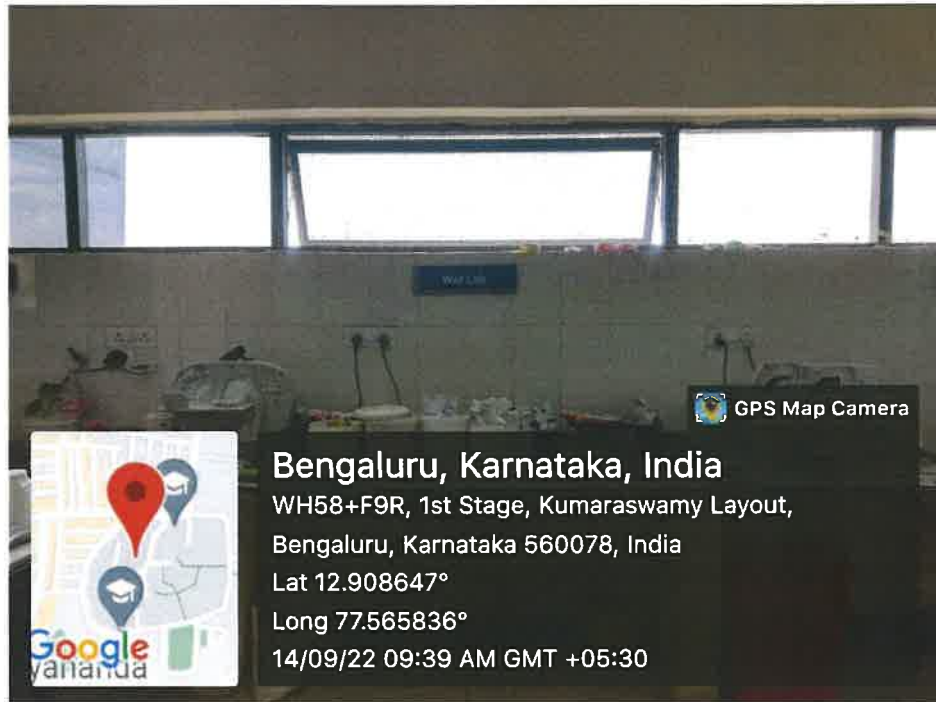
DRY LAB: trimming area for trimming of casts and appliances



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WET LAB



5. tracing boards : post graduates are provided with individual tracing areas to practise cephalometric tracing



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POST GRADUATE CLINIC:




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RECREATION AREA FOR STUDENTS :



MODELS FOR LEARNING:



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TYPHODONT MODELS



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MODELS FOR LEARNING




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WIRE BENDING MODELS AND APPLIANCES




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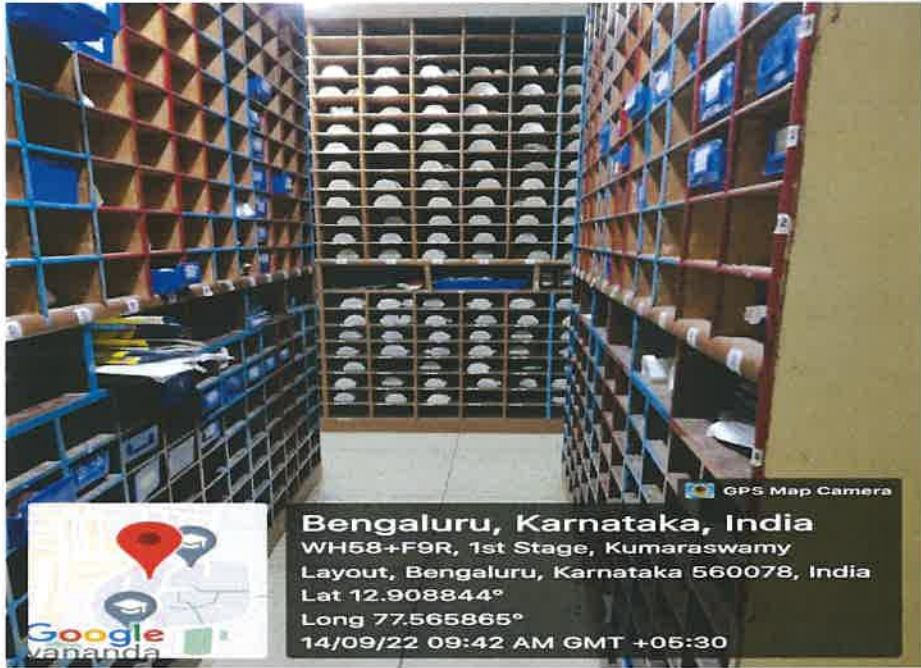
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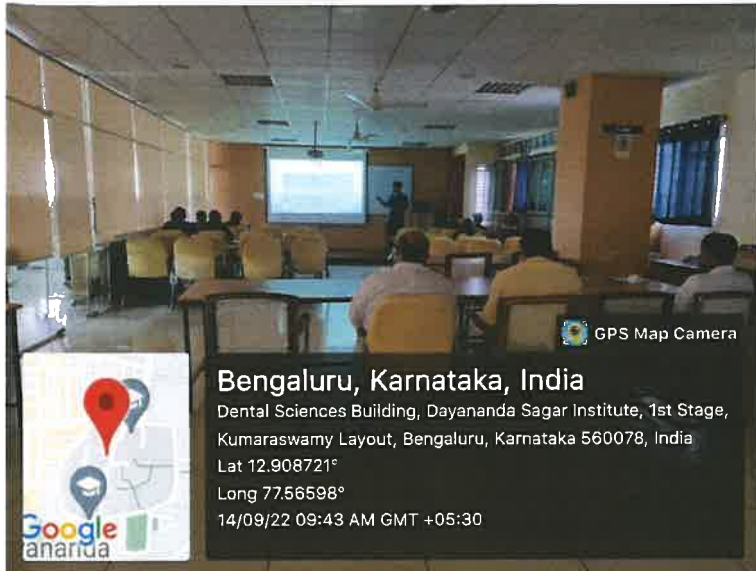
RECORD ROOM: all records of patients from inception to retention records are maintained in the record room



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Seminar room: a separate room for presentation of seminars, discussions and case presentations is provided for the students



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COMPUTER AND PRINTER FACILITIES:




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DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

1.



The department consists of ORTHOPHOS XG Dental x-ray unit providing the clinical workflow .

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2. The Department consists of CS 2100 CARE STREAM IOPA Dental Xray Machine.



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3.The Department consists of Intraskan DC (Wallmount) with near zero leakage radiation and perfectly balanced zero drift scissor arm .



4.The Department consists of intraoral camera with screen with the dental chair.



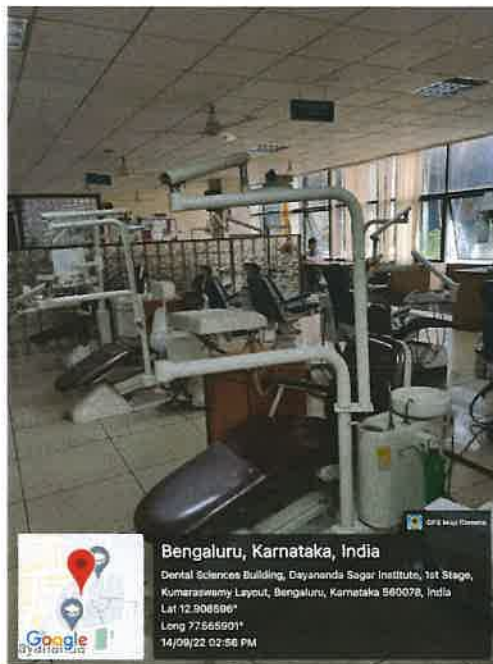
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5. The Department consists of Internal Library.



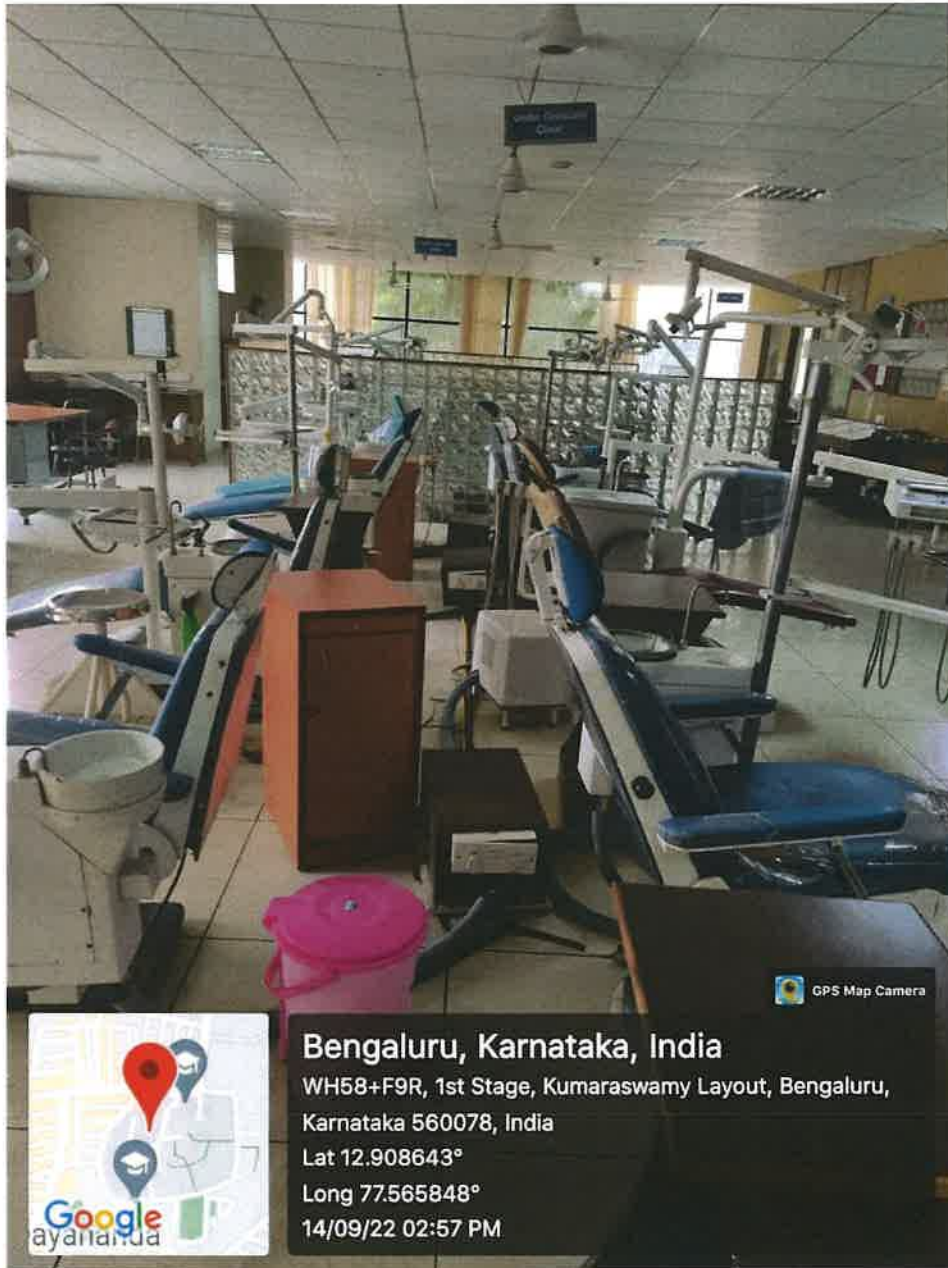
6. Post Graduate clinic



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7.Undergraduate clinic



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8. Allengers extra oral radiograph Machine



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DEPARTMENT OF PROSTHODONTICS

DEPARTMENT INSTRUMENTS



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.



Airtor – preparation of teeth for restorative and prosthetic reasons.

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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



Hanau wide Vue- semi Adjustable articulator



Electric Wax melter – melts inlay wax for making wax patterns

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DEPARTMENT OF PROSTHODONTICS
LAB INSTRUMENTS



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

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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.

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Oxygen cylinder – blow torch for melting cast ingots for casting



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Induction casting – to cast metal prosthesis.



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Palatal Trimmer – to trim palatal surface of casts



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Vibrator- to help in uniform mixing of gypsum and pouring casts.

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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

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Optical Surveyor – to survey casts models and dies for prosthesis



Die cutting Machine – to cut or section dies.



Gold Pickling Machine – to treat gold alloy for restorations



Ultrasonic cleaner – to clean prosthesis with ultrasonic vibrations

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LIGHT CURE UNIT FOR CROWN FABRICATION and CERAMIC FURNACE UNIT



Ceramic Furnace Unit – for firing ceramic crown and pressing metal free ceramic (Emax crown)



Light cure unit – to cure light cured composites and tray materials

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Bio star machine – to make stents and splints



Lab micromotor – handpiece and micromotor for trimming and polishing


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Department of Prosthodontics
FACILITIES



PG Clinic



Sterilization Room



UG Clinic



Ceramic Lab:1


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Dental Material



Pre-clinical lab



Pre-clinical PG Phantom heads



Ceramic lab:2

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Acrylic lab



Ceramic lab:3



Pre-clinical Crown and Bridge lab



Seminar Hall

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Department library




Case Demonstration



Demonstration for UG



Museum


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ANATOMICAL LANDMARKS

**RE-MOUNTING OF
 MASTERCAST WITH
 PROCESSED DENTURES ON
 ARTICULATORS**



**TOOTH PREPARATION ON
 TYPHODONT JAW SET**

**MOUNTING OF MASTER CAST
 ON ARTICULATORS**

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ACRYLIZATION



TEETH ARRANGEMENT



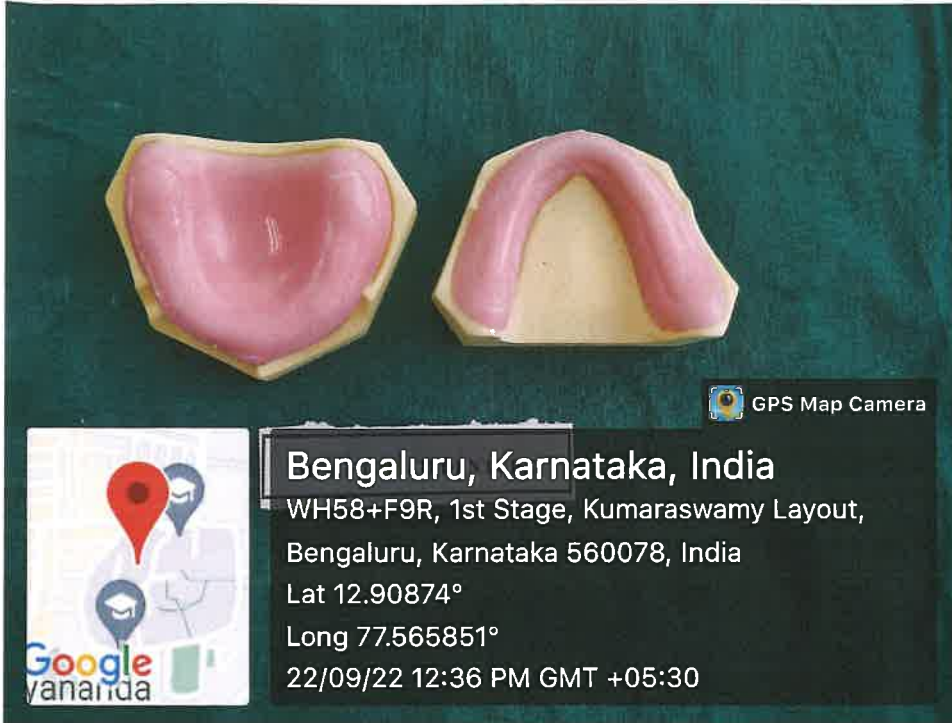
OCCLUSAL RIMS



DENTURE BASE

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HEAT CURED DENTURE BASE


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BASIC SCIENCES

DEPARTMENT OF PHYSIOLOGY



Demonstration of blood pressure by using Sphygmomanometer.

DEPARTMENT OF ANATOMY

Demonstration of Skeletal bones and models Demonstration of Head & Neck Cadaver specimens



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DEPARTMENT OF PHARMACOLOGY

1. Analytical Weighing balance



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The analytical weighing scale is used to measure the ingredients for preparation of various dental and medical preparations including toothpaste, toothpowder, Mandl's paint etc.,

2) Motor and pestle



Motor and pestle is used to combine different constituents together and to extract fine powder from crystalline compounds

Skill models

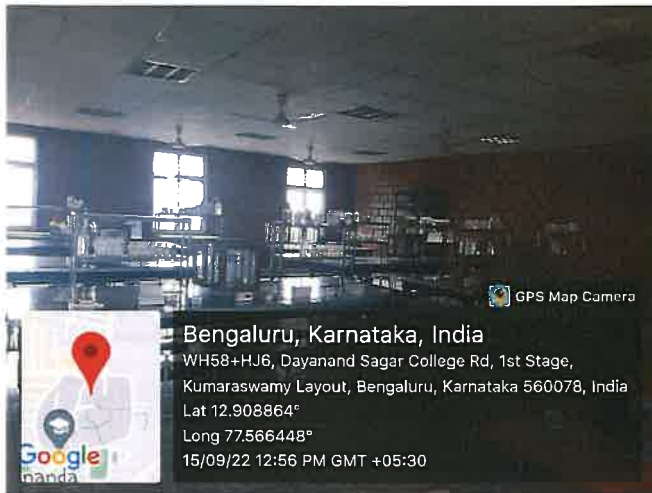
Pharmaceutical packaging of different drugs and dosage forms are gathered to enhance the understanding and exposure of students to different drugs and indications for the same.



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Facilities

Pharmacology Laboratory



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DEPARTMENT OF GENERAL PATHOLOGY & MICROBIOLOGY

1. Incubator



The department consists of Incubator as a equipment which is used for the growth and cultivations of microbes and other pathological tests.

2. Hot air oven

The department is equipped with Hot air oven for the sterilization process.



3. **Autoclave:** The department is equipped with Autoclave as an sterilizing instrument and also for decontamination.




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4. Culture media



The posses the culture media for the demonstration of various bacterial growth and cultures.

5. Binocular microscopes



Binocular microscopes for the Gram staining demonstration and observation.

6. Monocular microscopes Monocular student microscope for pathological tissue specimen and



slides observation

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7. Pathological specimens




Pathological specimens for students observation.

8. Laboratory



Department laboratory view.




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Minor equipment

Single Pan Weighing Digital balance used for weighing chemicals for the preparation of reagents, solutions required for various tests



Digital Photoelectric colorimeter used for the quantitative estimations of analytes.



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Distillation apparatus- to produce distilled water for the preparation of reagents and various diluted solutions.

FACILITIES:



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GPS Map Camera

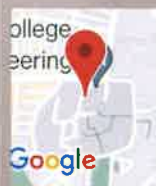


Bengaluru, Karnataka, India

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1st Stage, Kumaraswamy Layout, Bengaluru,
Karnataka 560078, India
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GPS Map Camera



Bengaluru, Karnataka, India

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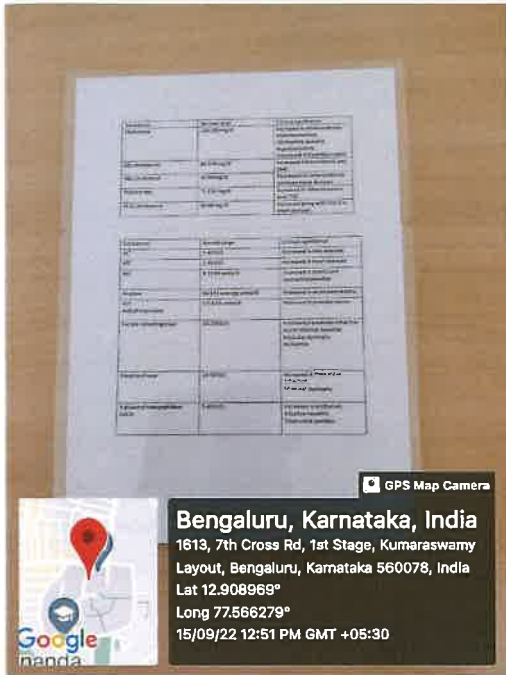
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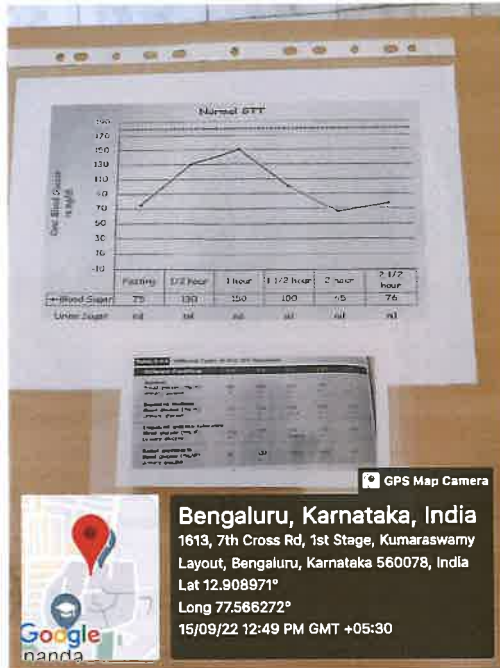
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Clinical Skill Models



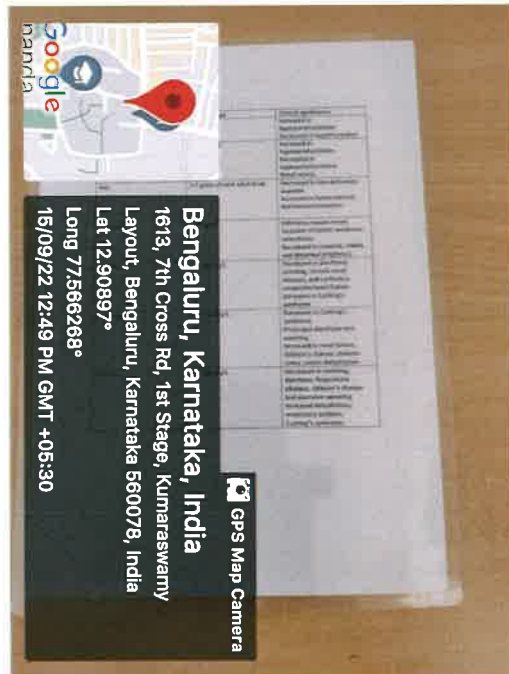
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 Layout, Bengaluru, Karnataka 560078, India
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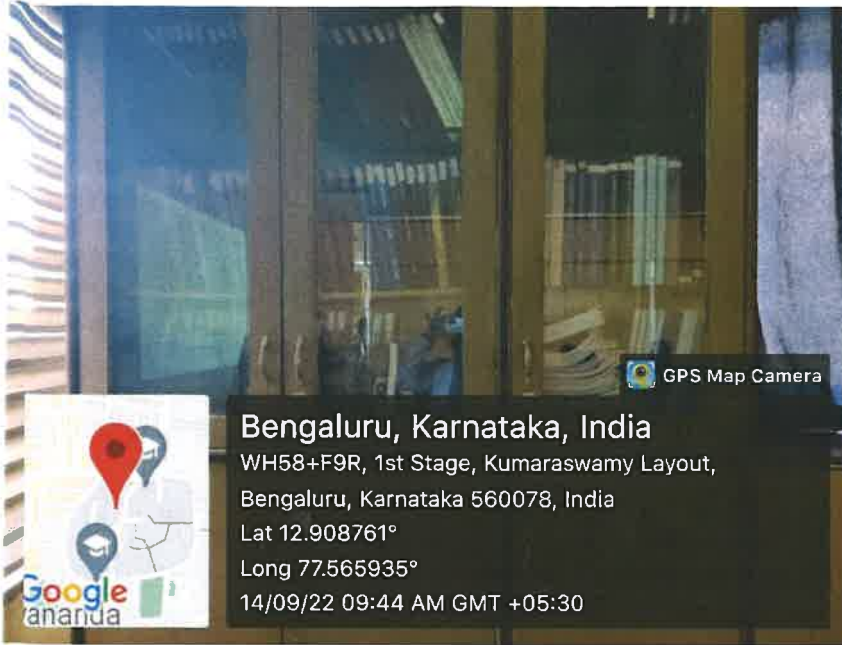
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 1613, 7th Cross Rd, 1st Stage, Kumaraswamy
 Layout, Bengaluru, Karnataka 560078, India
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DEPARTMENT LIBRARY:



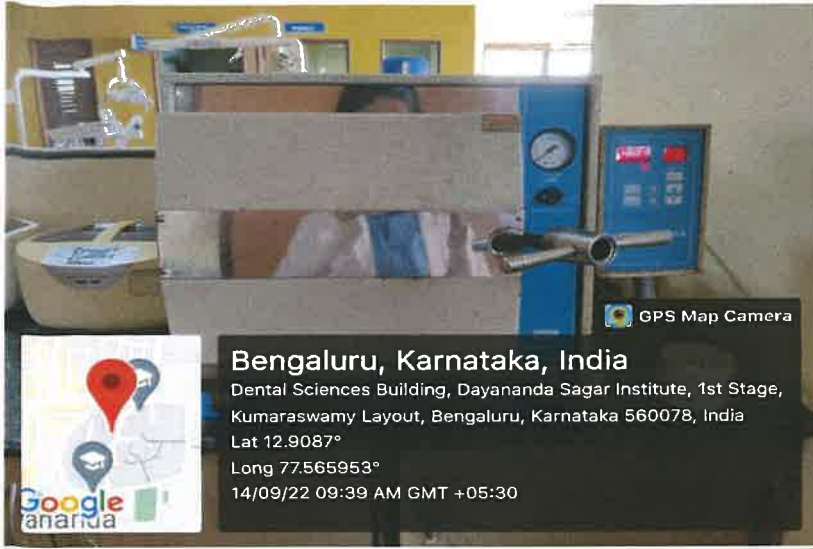
EQUIPMENTS:

STERILIZER




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AUTOCLAVE



ULTRASONIC CLEANER:




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