



Dayananda Sagar College of Dental Sciences,
Shavige Malleshwara Hills, Kumaraswamy Layout,
Bengaluru – 560 111, Telephone: 080 26663654, 7483693035
Email: principal@dscds.edu.in
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Learning Environmental Facilities

DSCDS prioritizes student-centric teaching methodologies, focusing on experiential learning through hands-on exercises, case discussions, and treatment planning.

Interdepartmental collaboration and CDE programs ensure students stay updated on the latest advancements in dentistry.

Participatory learning and problem-solving are encouraged through group discussions, quizzes, and case presentations.

Self-directed learning is facilitated through seminars, journal clubs, and research work. Students have access to digital libraries, promoting constant knowledge upgrading.

Patient-centric, evidence-based learning occurs daily in clinics, where students develop individualized treatment plans. For integral development, learning in humanities is encouraged through outreach programs, project-based learning, and community awareness initiatives.

The UG students are taught how to plan research programs and develop questionnaires for different survey topics. They also learn how to organise camps in their internship.

Students participate in conferences, present papers and posters, and engage in role-playing, conduct flash mobs, skits to educate communities about their field and create short films for various awareness programs like harmful effects of tobacco and aids.


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DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

FACILITIES AND LEARNING RESOURCES

1. UNDER GRADUATE CLINIC:



2. POST GRADUATE CLINIC



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3. AESTHETIC CLINIC:



4. SEMINAR ROOM:



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5. UNDER-GRADUATE PRECLINICAL LAB:



6. POST-GRADUATE PRECLINICAL LAB:




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**Direct and indirect restorations, post endodontic restorations,
endodontic procedures and sectioning**

7. PRECLINICAL SKILL MODELS:



Typhodont jaw sets

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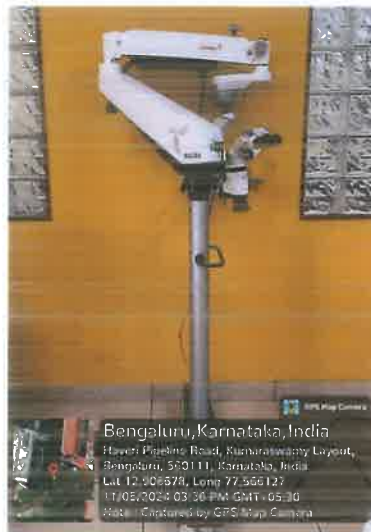


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8. MAJOR EQUIPMENTS:

a) Dental Operating Microscopes:



Labomed MAGNA and Labomed PRIMA microscope



Carl Zeiss Microscope

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The department uses three dental operating microscopes (Carl Zeiss, Labomed MAGNA and Labomed PRIMA) which greatly enhance a clinician's ability to view the tiniest details inside a patient's tooth. By magnifying the vision upto 25 times that of the naked eye, the dental operating microscope is useful in both diagnosis and treatment planning.



b) Loupes:



The department is equipped with Zoomax Loupes, available in 3x magnification for precise dental diagnosis and treatment.

c) Portable X-ray Unit:



Department is equipped with Vactech portable X-ray unit, lightweight and efficient to use in the department. Patients will not have to move around for radiographs. Fast, efficient and simple to use.

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d) RVG:



The department is equipped with the fast and direct RVG system. Consistently provides images with high detail and excellent contrast.

e) X-RAY UNIT:



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


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f) PHILIPS ZOOM BLEACHING UNIT:



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

g) ENDOMOTOR:



The department is equipped with Woodpecker Endogold Endomotor which is wireless handpiece enables more convenient operation. It adopts real time feedback technology and feedback control, effectively preventing instrument breakage.

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h) APEX LOCATOR:



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

i) THERMOPLASTIC 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 condensation”, or other warm gutta percha techniques.

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j) AUTOClave:



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

k) ELECTROCAUTERY UNIT:



The department is equipped with PerPerfect TCS II which is a high frequency electrosurgery system (Tissue Contouring System), which helps to manage soft tissues with great efficiency, greater precision and less bleeding than the common dental scalpel.

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I) ULTRASONIC UNIT:



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

m) DISTILLED WATER PLANT:



The department is equipped with a distilled water plant which provides clean distilled water.

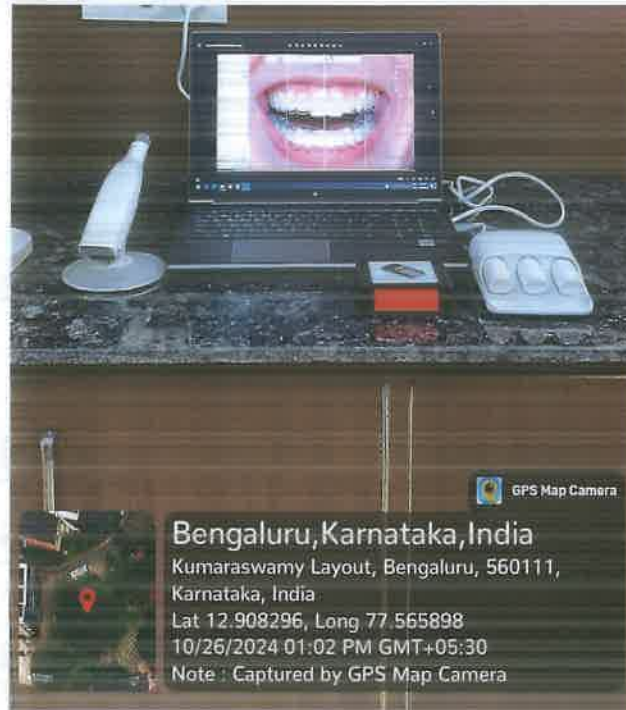
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n) DIGITAL SCANNER



The department is equipped with 3 Shape TRIOS dental intraoral scanner which allows the clinician to display a patient's 3D-impression of their teeth on a screen almost immediately after the scan is complete. It also features digital smile designing and can be integrated with CAD-CAM systems.


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DEPARTMENT OF PERIODONTOLOGY

FACILITIES AND RESOURCES

TRIPLE WAVELENGTH SOFT TISSUE LASER UNIT



970 nm WAVELENGTH DIODE LASER



Soft Tissue Laser Unit allows the operator to perform various minor surgical and non-surgical procedures in a bloodless and painless method

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PHYSIODISPENSER



Physiodispenser to help place dental implant

ELECTROSURGICAL UNIT (TCS)



Electrocautery unit allows the operator to perform various minimally invasive surgery and microvascular surgery.

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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.

CENTRIFUGE MACHINE



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



NEEDLE DESTROYER



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.

HORIZONTAL AUTOCLAVES

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



AIR POLISHING DEVICE



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

IMPLANT MAINTENANCE KIT



The department has Implant maintenance kit which helps in implant maintenance and periimplantitis



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DIGITAL 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

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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ULTRASONIC SCALER WITH LED HANDPIECE



The piezo ultrasonic scaler utilises advanced piezo technology for efficient scaling procedure

PORTABLE FUMIGATION MACHINE



This device is used in minor OTs by producing a fine mist of disinfectant solution

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PERIODONTAL SURGICAL INSTRUMENTS



These instruments are used for periodontal procedures including regenerative surgeries

MICROSURGICAL INSTRUMENT SET



These are precision instruments focusing on periodontal plastic surgical procedures

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IMPLANT KIT



Used for surgical placement of dental implant

HEPA FILTER



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This type of air filter removes 99.9 % of air borne particles from the indoor space



XRAY VIEWER



Helps in viewing Orthopantamograph and other x-ray

INTRAORAL CAMERA



This device enables the dentist to evaluate the structures within the mouth for better analysis, diagnosis and patient education

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MAGNIFICATION LOUPE



Magnification loupes help in accurate inspection of the areas for precision procedures

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TEACHING SKILL MODELS

VAN PERIO MODEL FOR PERIODONTAL DEFECTS



GINGIVAL ENLARGEMENT MODEL



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MODEL FOR GINGIVAL INFLAMMATION



INFRABONY DEFECTS MODEL



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FURCATION DEFECTS MODEL



MODEL TO SHOW SUTURING TECHNIQUE



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PERIODONTAL SPLINT MODEL



MODEL TO SHOW SUTURING TECHNIQUE

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GINGIVAL RECESSION MODELS



MODELS TO SHOW FURCATION AND PERIODONTAL POCKETS



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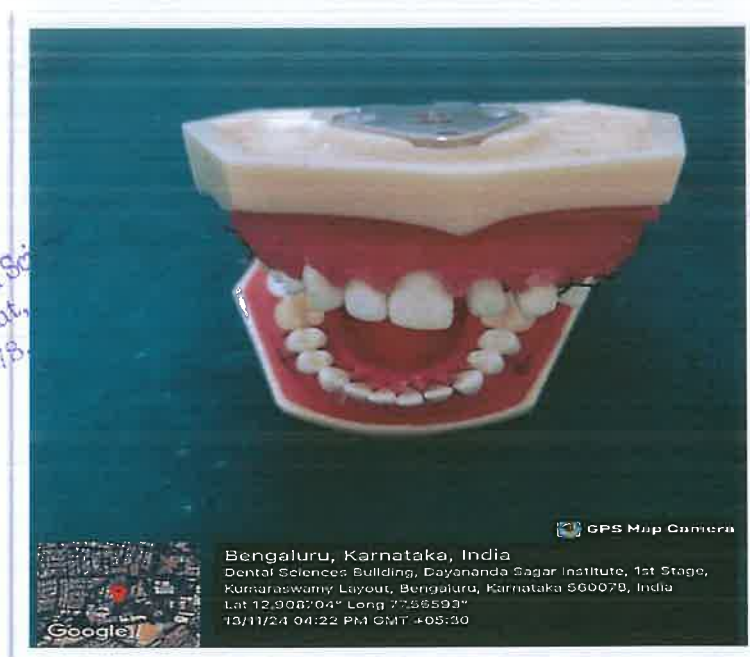
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EARLY AND ADVANCED PERIODONTAL DISEASE MODEL



SILICON MODEL FOR PERIODONTAL PROCEDURES



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SEMINAR ROOM

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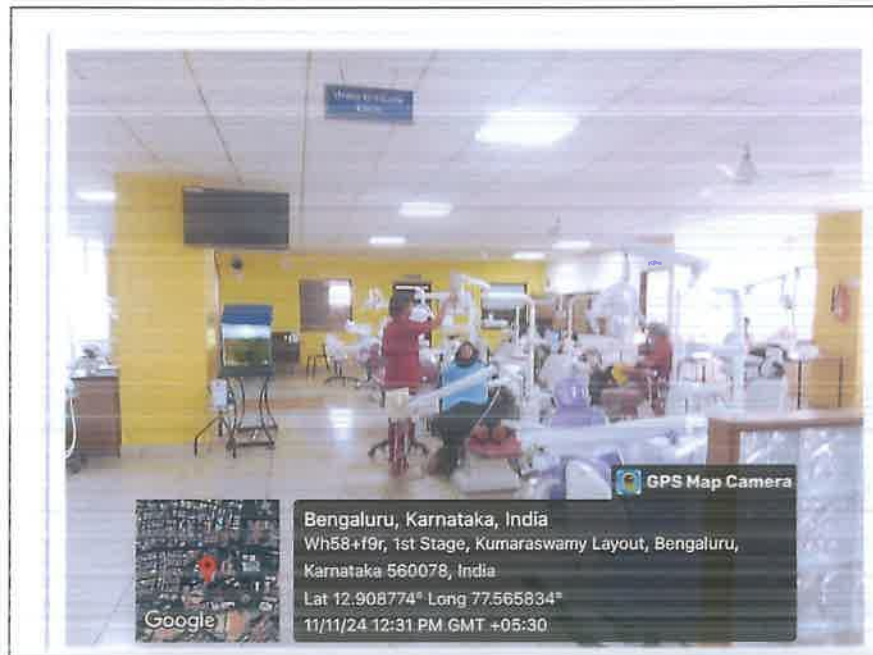
SURGICAL AREA



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FACILITIES IN THE DEPARTMENT



UNDERGRADUATE CLINIC



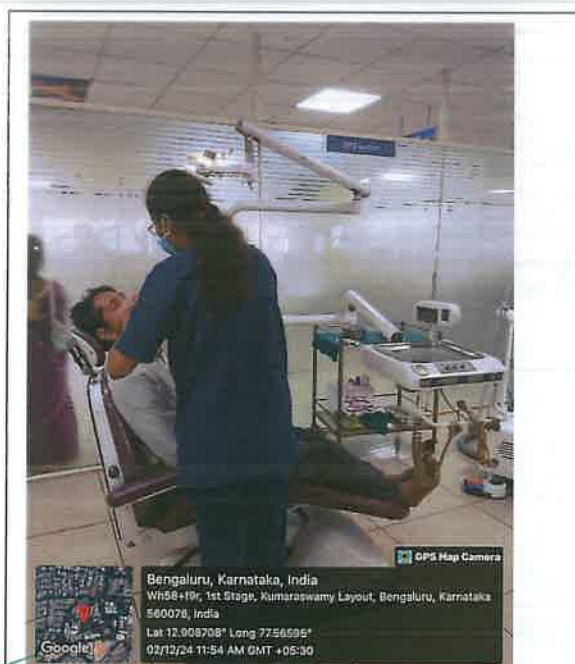
POST GRADUATE CLINIC



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DEPARTMENT LIBRARY



OPD SECTION

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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

FACILITIES AND LEARNING RESOURCES

Image 1: Autoclave in the department



Image 2: Pulp Tester



Handwritten signature
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Image 3: Ultrasonic Scaler



Image 4: Water distiller

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Image 5: Pouch sealer

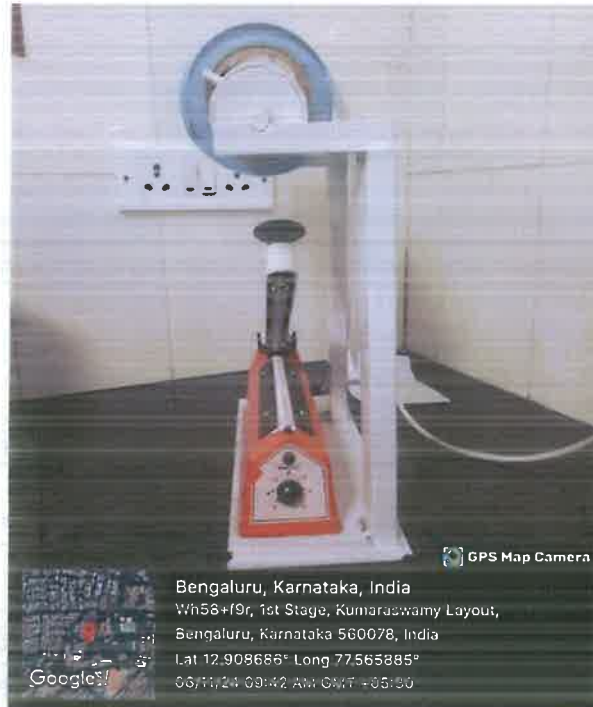


Image 6: Light cure unit



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Image 7: UV Chamber



Image 8: Ultrasonic Cleaner



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Image 9: Speaker and cordless microphone



Image 10: Hand Dryer



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Image 11: Generator in MDU

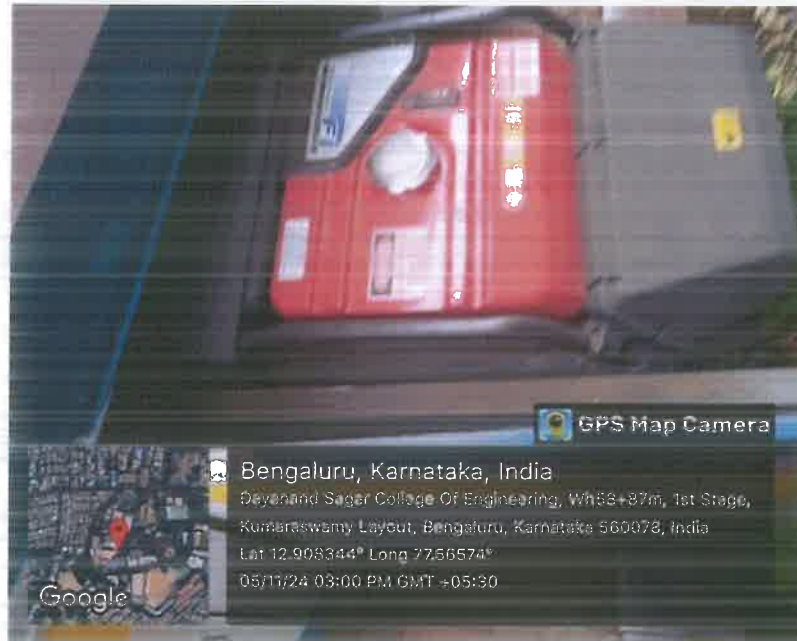


Image 12: TV in MDU



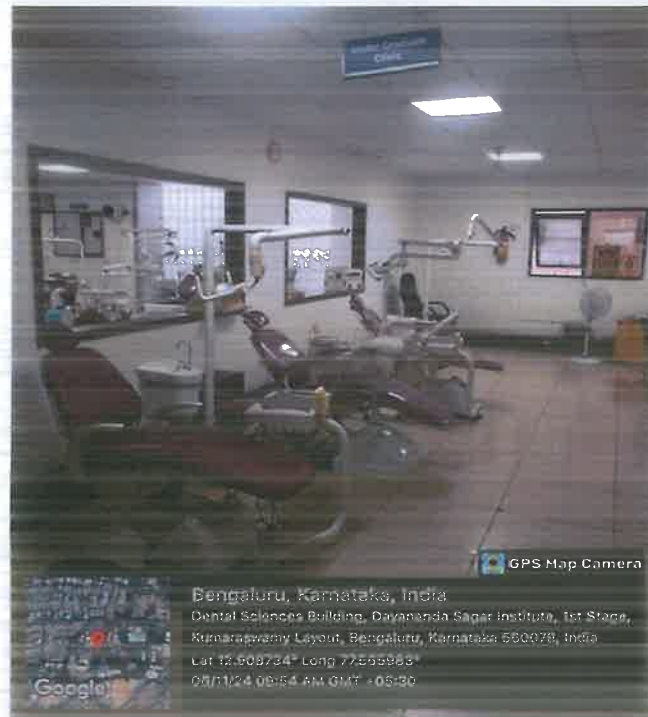
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CLINICAL AREA FACILITIES



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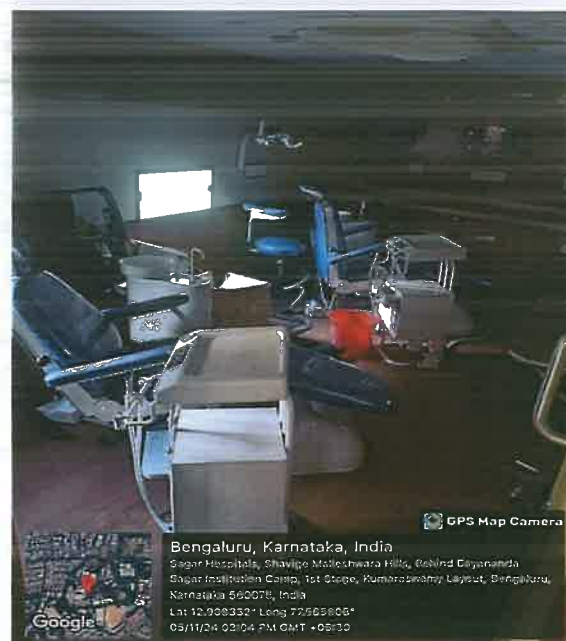
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MOBILE DENTAL UNIT (MDU)



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Compressor in MDU



Blower in MDU



AC in MDU



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INFORMATIVE MODELS



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

FACILITIES AND LEARNING RESOURCES

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 physio dispenser 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 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.

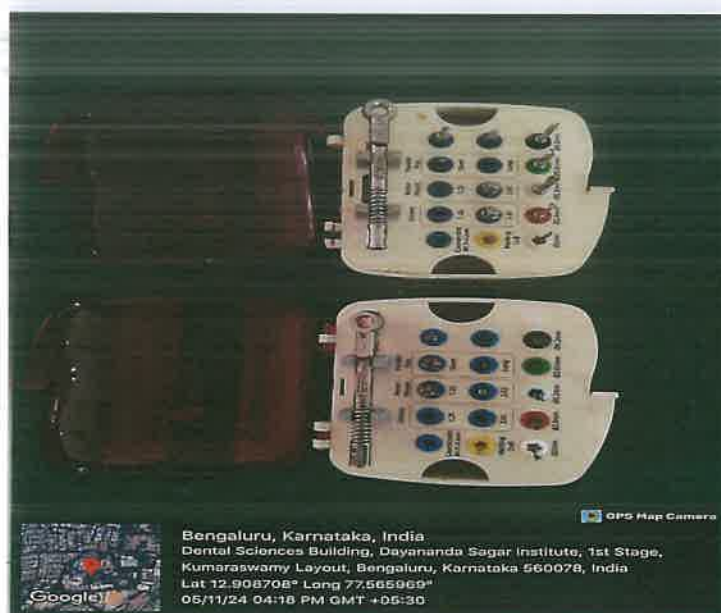


5.NEEDLE BURNER



The department possess 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 AUGUMENTATION KIT



The department consists of sinus lift kit. The kit is used to aid in the lifting up of Sinus cavity for implant site preparation specially for crestal and 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 secretion

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9.FOGGING MACHINE FUMIGATOR



10. AUTOCLAVES



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CLINICAL SKILL MODELS



Suturing pillow, casts



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

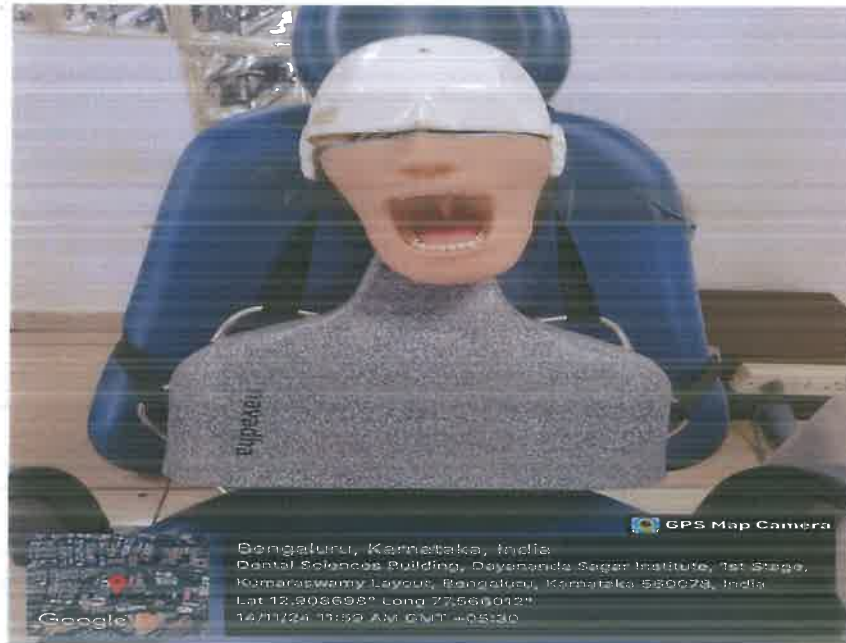
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MANNEQUIN



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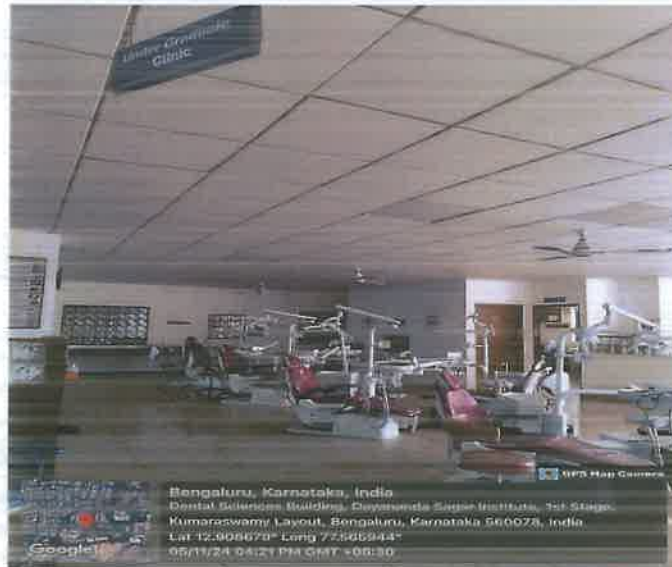


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FACILITIES

UNDERGRADUATE CLINIC



POSTGRADUATE CLINIC



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MINOR OPERATION THEATRE



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IMPLANTOLOGY CLINIC



SEMINAR ROOM



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COMPREHENSIVE DENTAL CARE



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SURGICAL INSTRUMENTS (TRAUMA, ORTHOGNATHIC AND OTHERS)



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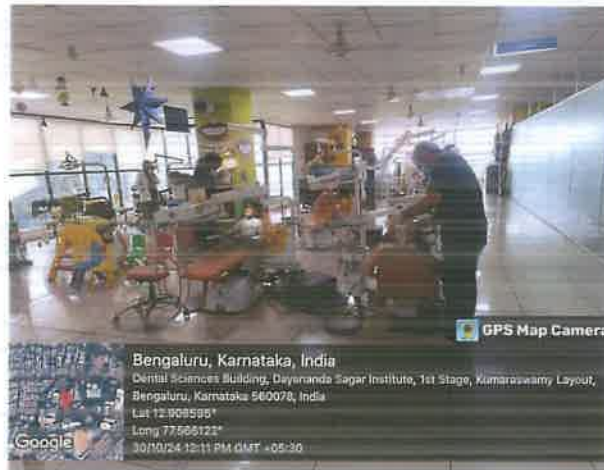
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DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

FACILITIES

1. UG CLINICS



2. UG PRECLINICAL LAB AREA

Wax Carving area



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3.SPECIAL HEALTH CARE NEEDS AREA



4.CLINICAL SKILL LAB AREA

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Demonstration Area to students





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5. DEPARTMENT MUSEUM



6. DEPT. LIBRARY



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MAJOR/MINOR EQUIPMENTS PRESENT IN THE DEPARTMENT:

1. Autoclave



An autoclave is a machine that uses steam under pressure to sterilize items by killing microorganisms, spores, viruses, and bacteria. Autoclaves are also known as steam sterilizers.

2. X-ray Machine



An X-ray machine is a device that uses electromagnetic radiation to create images of the inside of the body. These images are called radiographs and can be used for diagnostic and therapeutic purposes.

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3. EndomotorApex locator



An apex locator is an electronic device used in endodontics to determine the length of a root canal

4. Needle burner



Electrically operated, this equipment is designed to incinerate needles instantly and mechanically cut syringes immediately after use

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5. Ultrasonic cleaner



Ultrasonic cleaning is used to remove unwanted materials from everything from jewelry to long rifles, from super-delicate lenses to massive engine parts, from surgical instruments to motherboards.

6. Pulp tester



The pulp tester excites the nervous system of the pulp through electrical stimulation. However, the pulp tester suggests only whether the tooth is vital or nonvital; the crucial factor is the vascularity of the tooth

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7. Corona Guard



A powerful but small device that attacks and disables Coronavirus from infecting people

8. Pressure moulding machine



Easy-Presso EP-100 Pressure forming machine is ideal for making clear aligners. This product uses air, unlike conventional products, does not generate noise during operation.

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9. Ultrasonic Scaler



An ultrasonic dental scaler is a valuable tool that harnesses the power of ultrasonic vibrations to aid in removing plaque and tartar from teeth.

10. Glass bead sterilizer



A glass bead sterilizer is an instrument that sanitizes small, solid, metal and glass lab equipment in ten seconds by rapidly heating glass beads

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11. Gutta percha obturation device



A dental gutta percha obturation system works by filling and sealing the root canals of a tooth after the infected or damaged pulp has been removed during a root canal procedure.

12. Digital intraoral camera with monitor



Intra Oral Camera (USB Model) Designed to allow clinicians to capture and display digital images from inside a patient's mouth

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DEPARTMENT OF ORAL PATHOLOGY

FACILITIES AND RESOURCES



Dental Anatomy Lab area

Microscopes



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Trinocular microscope and Binocular microscope



Monocular microscope



Digital microscope



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LCD Digital microscope



Hot air oven



Hot plate



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Water bath



Water plant



Museum



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Forensic corner



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Clinical study model





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Wax blocks storage unit



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Histopathology lab





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Grossing



Education model



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FACILITIES IN DEPARTMENT OF ORTHODONTICS

1. CLINICAL SKILLS LAB

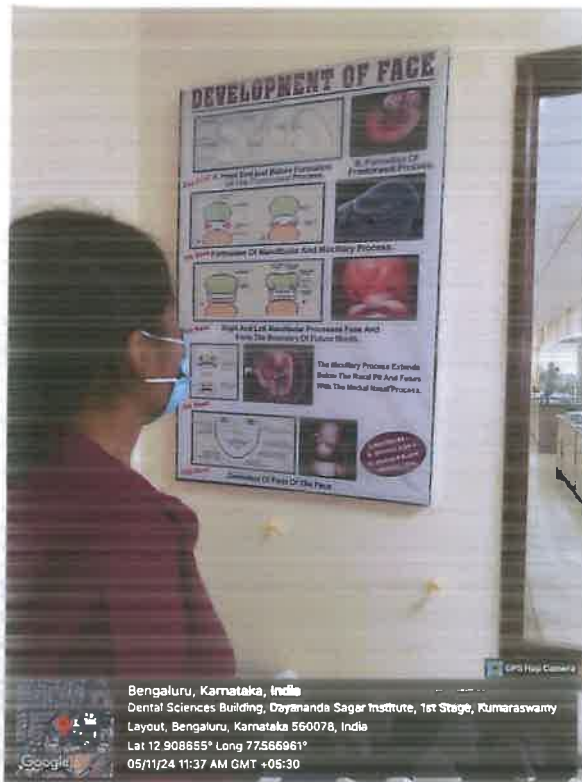
UNDERGRADUATE LAB: A designated lab area is provided to undergraduate students. Pre-clinical exercises and other demonstrations are performed regularly



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2. Educational boards displayed all over the undergraduate lab





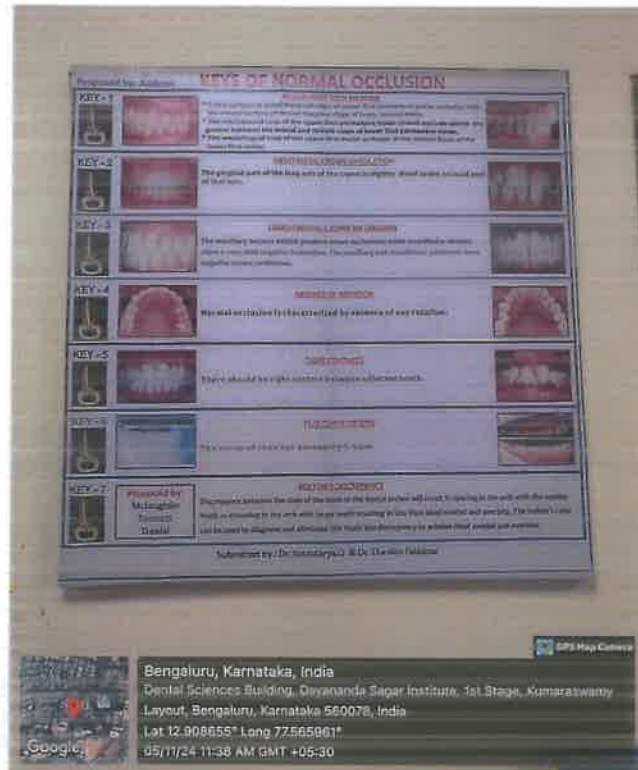
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Educational boards displayed all over the undergraduate lab



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1. Undergraduate Students Working Area



2. Undergraduate clinic



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3. 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



5. Dry lab



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6. DRY LAB: trimming area for trimming of casts and appliances



7. WET LAB



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



9. POST GRADUATE CLINIC:



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10. RECREATION AREA FOR STUDENTS :



11. MODELS FOR LEARNING :



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



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



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14. DEPARTMENT LIBRARY:



15. DEPARTMENT LIBRARY:



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16. EQUIPMENTS: STERILIZER



AUTOClave



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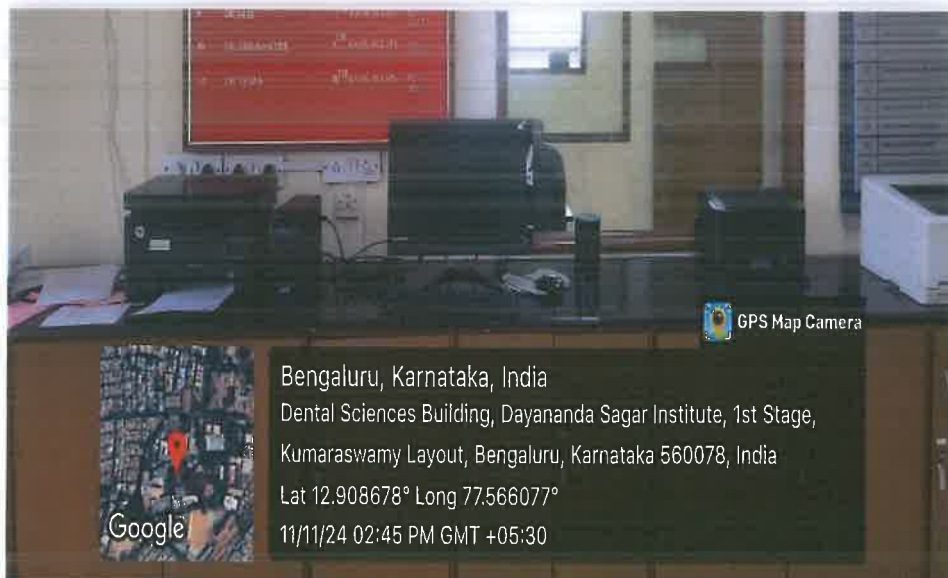
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ULTRASONIC CLEANER:



16. COMPUTER AND PRINTER FACILITIES:



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17. **STOCK REGISTERS:**

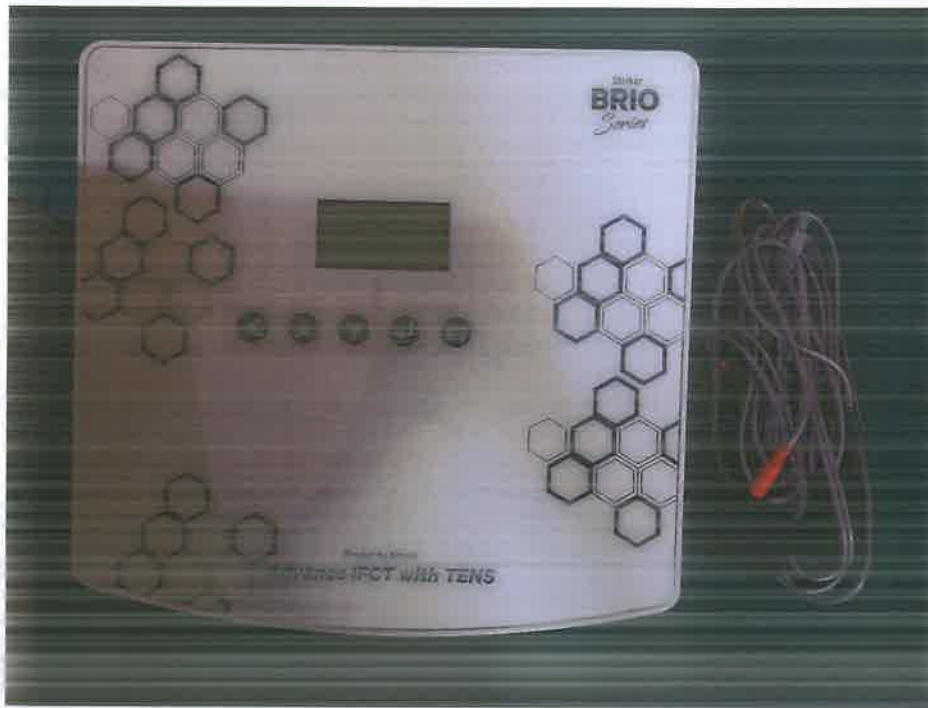


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DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

Transcutaneous Electrical Nerve stimulation (TENS) MACHINE



Glucometer



Digital Sphygmomanometer




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Smokerlyzer



Pulp tester



Ultrasound physiotherapy device



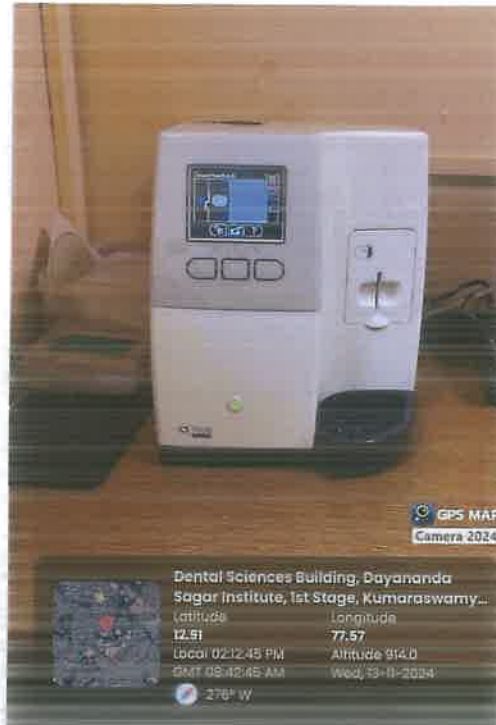
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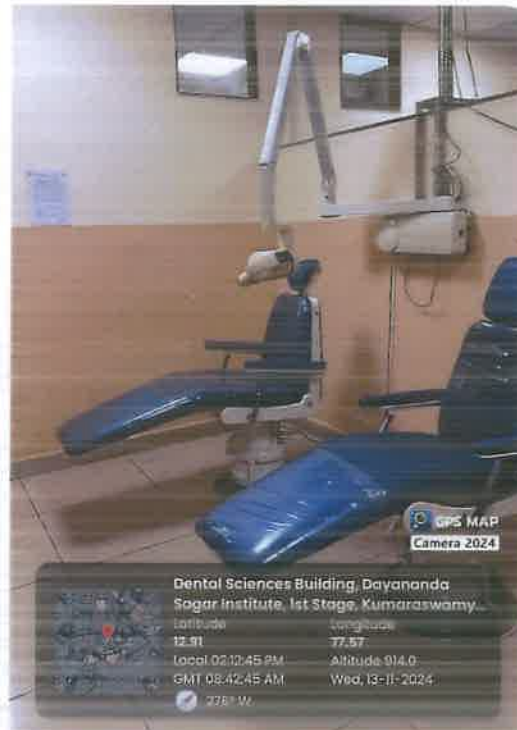
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Photostimulable Phosphors (RVG)



Intraoral xray machine



Intra Oral camera



Cone Beam Computed Tomography



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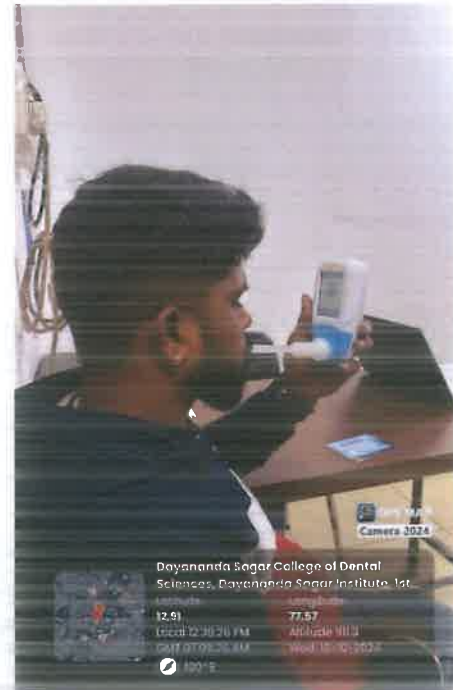
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Orthopantomogram X-ray Machine



Tobacco cessation counselling room



Postgraduate clinic



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Teaching Model of Dismantled X-ray tube head




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DEPARTMENT OF PROSTHODONTICS
FACILITIES AND RESOURCES

DEPARTMENT INSTRUMENTS



Surveyor - used to locate and delineate contours of tooth for prosthesis



Plaster dispenser - used to dispense gypsum products for manipulation



Acrylyzing Unit- to cure heat cured acrylic resin's during curing stage.



Hydraulic Press - to press flasks and remove excess flash material.

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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 reason

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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.

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Hot Air oven - hot air
sterilisation 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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plaster dispenser



Burnout furnace- to melt wax
after investment



Pindex - to make pinholes in die



Agar - duplicating material
machine to melt agar

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Spot welder - to solder and weld metal prosthesis.



Spot welder - to solder and weld metal 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



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.

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Oxygen Cylinder - to melt cast
inacots



Steam jet - to clean cast metal
surfaces

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Vacuum mixer - to mix
investment materials in vacuum



Splendour 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



Gold Pickling Machine - to treat gold alloy for restorations

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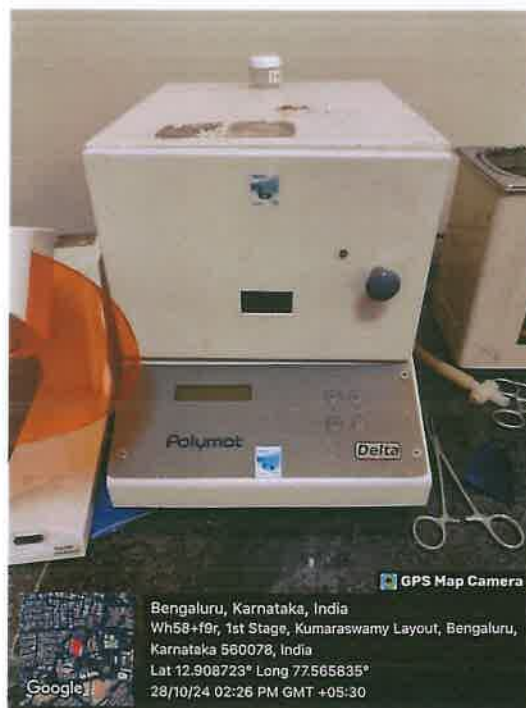
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**LIGHT CURE UNIT FOR CROWN
FABRICATION and CERAMIC FURNACE UNIT**



**LIGHT CURE UNIT FOR CROWN
FABRICATION and CERAMIC FURNACE UNIT**



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Bio star machine - to make
stents and splints



Lab micro-motor - hand-piece and
micro-motor for trimming and
polishing.



Implant kit surgical - NORIS



Articulator - BIOART

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INTRA ORAL CAMERA 3S TRIOS

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Facilities



PG CLINIC



STERILISATION ROOM



UG-CLINIC



Ceramic lab-1

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Dental materials



Pre-clinical lab



Pre-clinical PG Phantom heads



Ceramic lab:2

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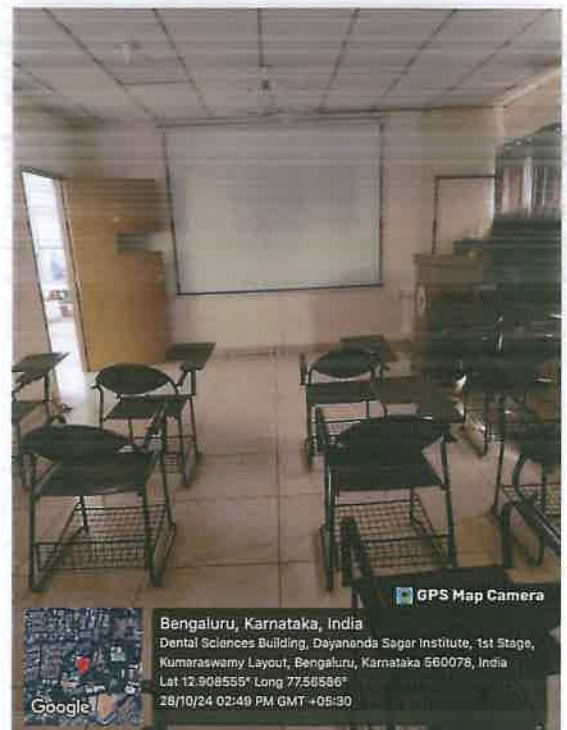
Acrylic lab



Ceramic lab:3



Pre-clinical Crown and Bridge lab



Seminar hall

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Department library



Case demonstration



Demonstration for UG



Museum

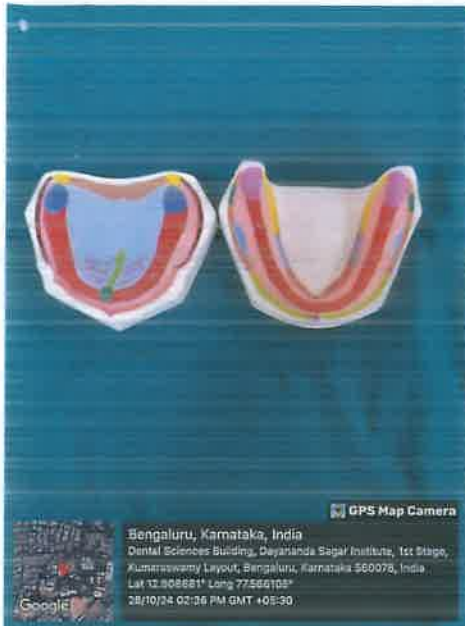
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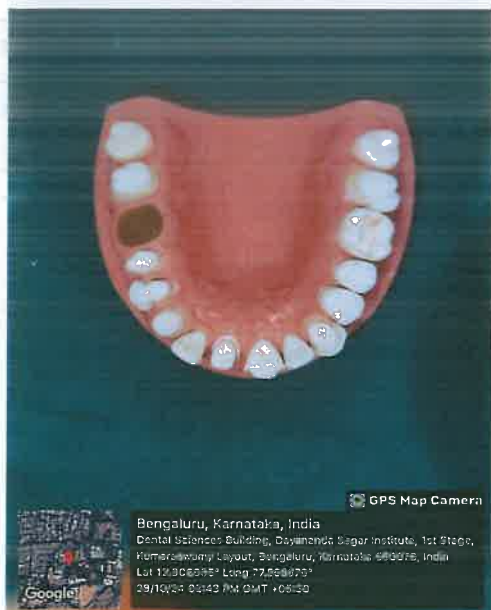
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Anatomical landmarks



RE-MOUNTING OF MASTER-CAST WITH
PROCESSED DENTURES ON ARTICULATORS



TOOTH PREPARATION ON
TYPHODONT JAW SET



HEAT CURED DENTURE BASE


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ACRYLISED DENTURE



TEETH ARRANGEMENT



OCCUSAL RIMS



Denture base

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BASIC SCIENCES

DEPARTMENT OF PHYSIOLOGY

Demonstration of blood pressure by using Sphygmomanometer



DEPARTMENT OF ANATOMY

MAJOR EQUIPMENTS

MUSEUM SPECIMENS--001



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MUSEUM SPECIMENS—002



MUSEUM SPECIMENS—003



MICROSCOPES

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WORKING MAXILLO FACIAL MODELS—001

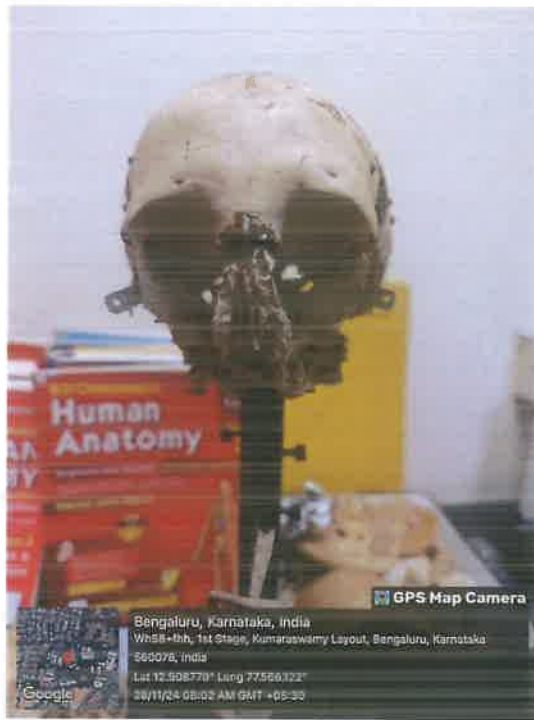


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WORKING MAXILLO FACIAL MODELS—002



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TEACHING MODELS:



MODELS—CHARTS

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CHART --002



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NERVES



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BONES DESCRIPTION



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CLINICAL SKILL MODELS



Clinical SKILL MODEL


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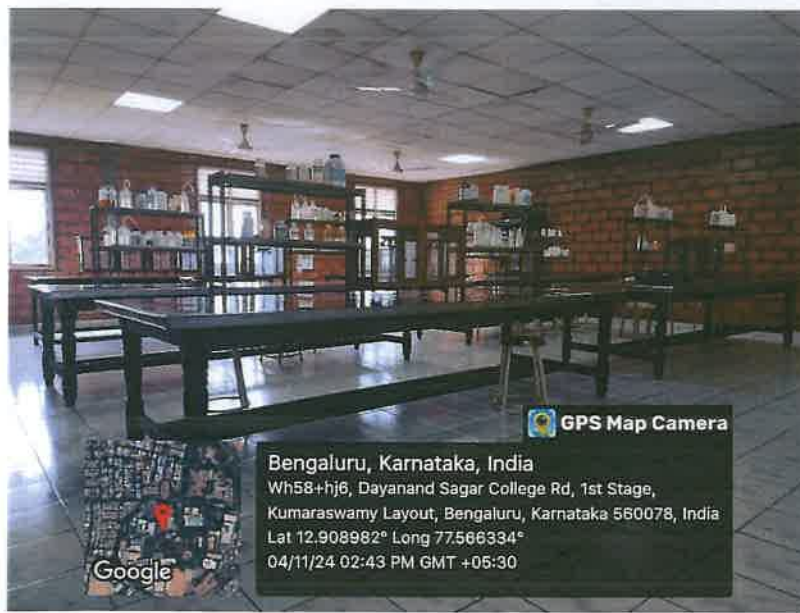


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DEPARTMENT OF PHARMACOLOGY

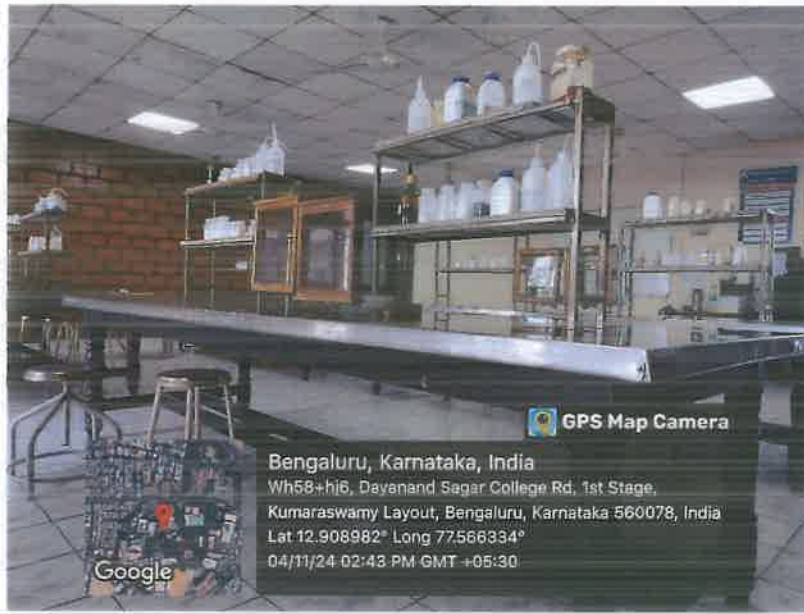
Laboratory area



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MAJOR EQUIPMENTS

DIGITAL SINGLE PAN BALANCE:



DOUBLE PAN BALANCE:

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MINOR EQUIPMENTS



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CLINICAL SKILL MODELS



DEPARTMENT OF GENERAL PATHOLOGY AND MICROBIOLOGY

FACILITIES AND RESOURCES

Incubator

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Hot-air oven



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Autoclave



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Centrifuge



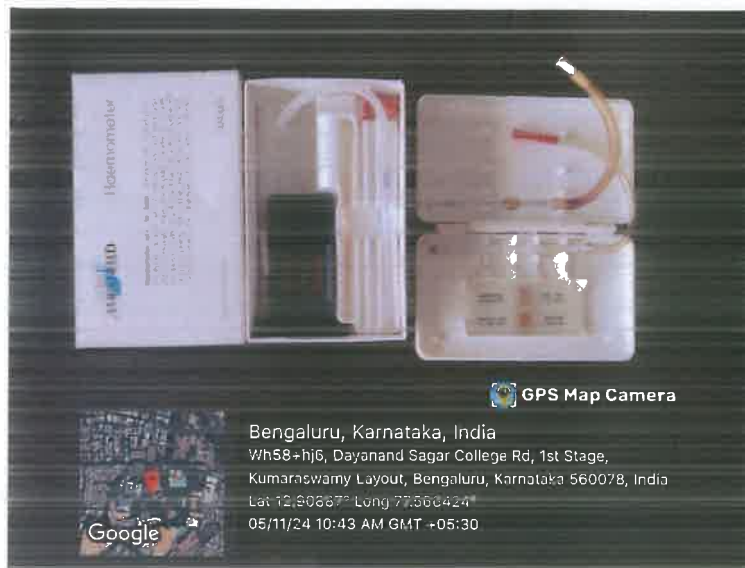
Handwritten signature

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Minor Equipment- Haemometer



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Culture Media- Blood agar, MacConkey agar, Nutrient agar,
Thioglycolate broth, Lowenstein-Jensen medium, Robertson cooked
meat broth



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Pathological specimen



Reagents



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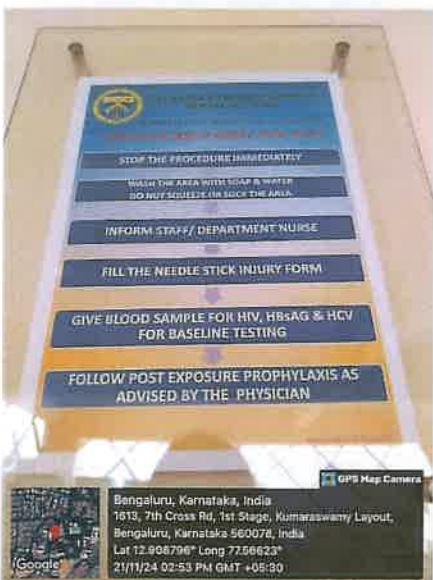
Clinical Teaching models



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**Spotters- Microtiter plate, Sterile swab, Tuberculin syringe,
Inoculation wire and loop(2mm,4mm)**



Microscope



[Handwritten signature]

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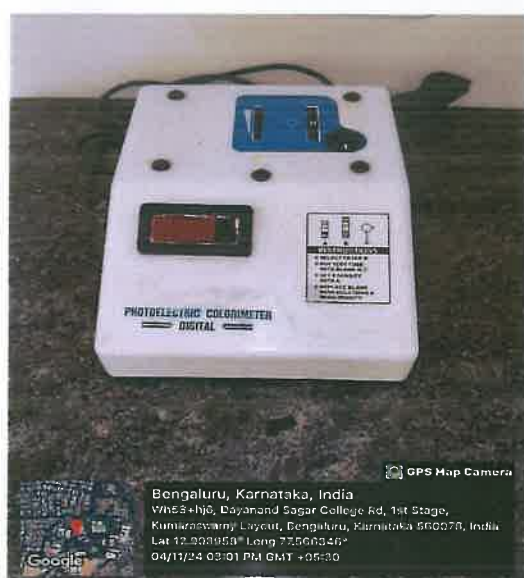
Laboratory working area



DEPARTMENT OF BIOCHEMISTRY

MAJOR EQUIPMENTS

PHOTOELECTRIC COLORIMETER:



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DIGITAL BALANCE:



DISTILLATION APPARATUS:



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CENTRIFUGE:



WATERBATH:



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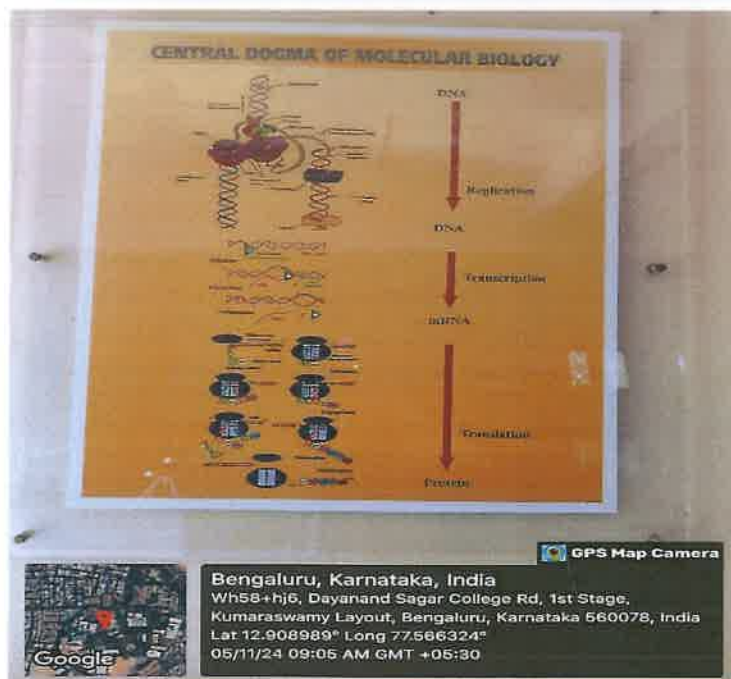


MINOR EQUIPMENTS

TEACHING MODELS:



CENTRAL DOGMA OF MOLECULAR BIOLOGY:



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VITAMINS:



CITRIC ACID CYCLE:



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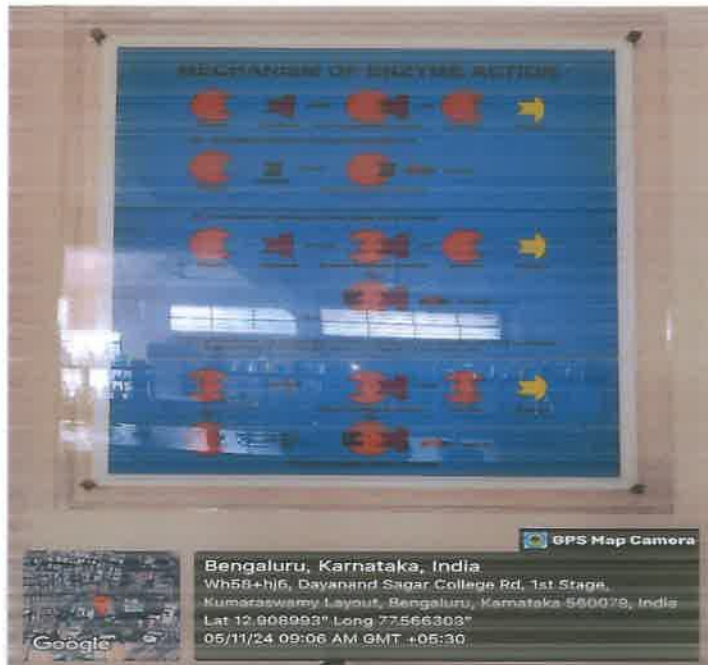
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MECHANISM OF ENZYME ACTION:



GLYCOLYSIS AND GLUCONEOGENESIS:



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CLINICAL SKILL MODELS

Substance	Normal range	Clinical significance
Glucose	80-120 mg/dl	Increased in diabetes mellitus, decreased in hypoglycemia, decreased in renal failure, decreased in liver failure
Urea	20-30 mg/dl	Increased in renal failure, decreased in liver failure
Creatinine	0.6-1.2 mg/dl	Increased in renal failure, decreased in liver failure
Uric acid	4-8 mg/dl	Increased in gout, decreased in liver failure
Calcium	9-10 mg/dl	Increased in hyperparathyroidism, decreased in hypoparathyroidism
Phosphorus	2.5-3.5 mg/dl	Increased in renal failure, decreased in liver failure

Both are increased in hypoparathyroidism

GPS Map Camera

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Lat 12.908951° Long 77.566337°
04/11/24 03:18 PM GMT +05:30

Google

Substance	Normal range	Clinical significance
Glucose	80-120 mg/dl	Increased in diabetes mellitus, decreased in hypoglycemia, decreased in renal failure, decreased in liver failure
Urea	20-30 mg/dl	Increased in renal failure, decreased in liver failure
Creatinine	0.6-1.2 mg/dl	Increased in renal failure, decreased in liver failure
Uric acid	4-8 mg/dl	Increased in gout, decreased in liver failure
Calcium	9-10 mg/dl	Increased in hyperparathyroidism, decreased in hypoparathyroidism
Phosphorus	2.5-3.5 mg/dl	Increased in renal failure, decreased in liver failure
Alkaline phosphatase	40-120 U/L	Increased in bone disease, decreased in liver failure
Aspartate aminotransferase	0-40 U/L	Increased in liver failure, decreased in renal failure
Alanine aminotransferase	0-40 U/L	Increased in liver failure, decreased in renal failure
Gamma-GT	0-40 U/L	Increased in liver failure, decreased in renal failure
Prothrombin time	11-13 sec	Increased in liver failure, decreased in renal failure
Partial thromboplastin time	28-34 sec	Increased in liver failure, decreased in renal failure

GPS Map Camera

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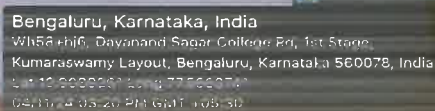
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Table 20.2 Biochemical changes for the differential diagnosis of three types of jaundice			
Parameter	Chronic liver disease (non-hepatic, alcoholic)	Chronic liver disease (non-hepatic, non-alcoholic)	Acute liver disease
Urine bilirubin	Unconjugated bilirubin ↑	Conjugated bilirubin ↑	None ↑
Urine urobilinogen	Indirect positive	Direct positive	Negative
Serum enzymes	ALP, AST, and ALT ↑↑	ALP ↑↑, ALT and AST increased ↑	ALT and AST ↑↑, ALP increased ↑
Bilirubin in urine	None excreted	Excreted	Excreted
Diagnosis in urine	Excretion ↑	→ or ↓	→ or ↓

ALP, Alkaline phosphatase; AST, Aspartate aminotransferase; ALT, Alanine aminotransferase; ↑, increased; ↓, decreased; ↑↑, increased

Different Conditions	0.2	0.4	0.6	0.8	1.0
Normal					
Normal (oral temp)	36	35.5	34.5	33.5	32
Normal (rectal temp)	37	36.5	35.5	34.5	33
Diabetic condition					
Diabetic (oral temp)	3.5	3.5	3.5	3.5	3.5
Diabetic (rectal temp)	4.5	4.5	4.5	4.5	4.5
Impaired glucose response					
Impaired (oral temp)	4.5	4.5	4.5	4.5	4.5
Impaired (rectal temp)	5.5	5.5	5.5	5.5	5.5
Abnormal glucose response					
Abnormal (oral temp)	5.5	5.5	5.5	5.5	5.5
Abnormal (rectal temp)	6.5	6.5	6.5	6.5	6.5



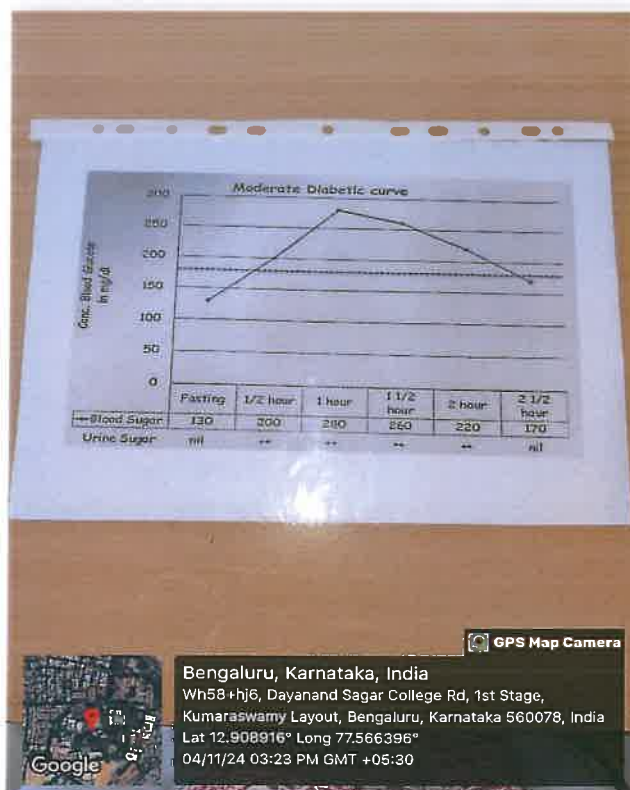
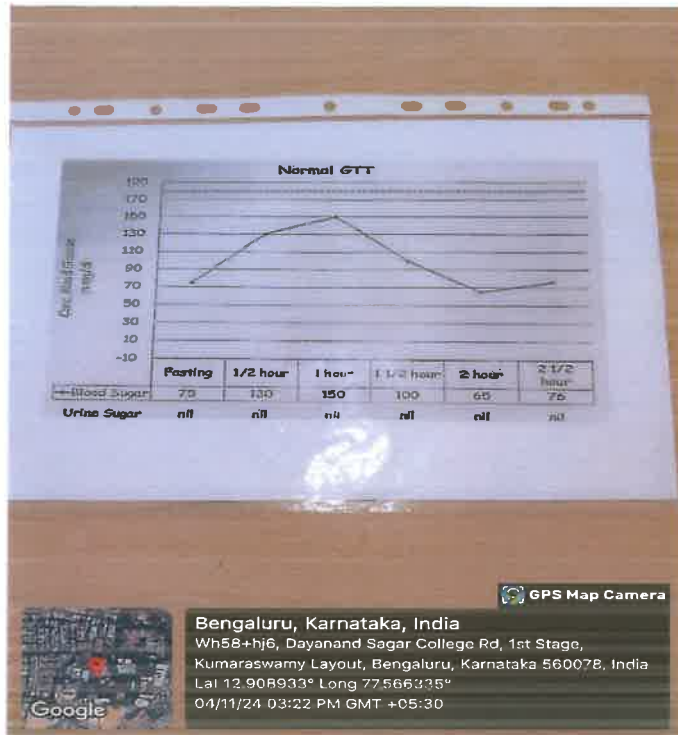
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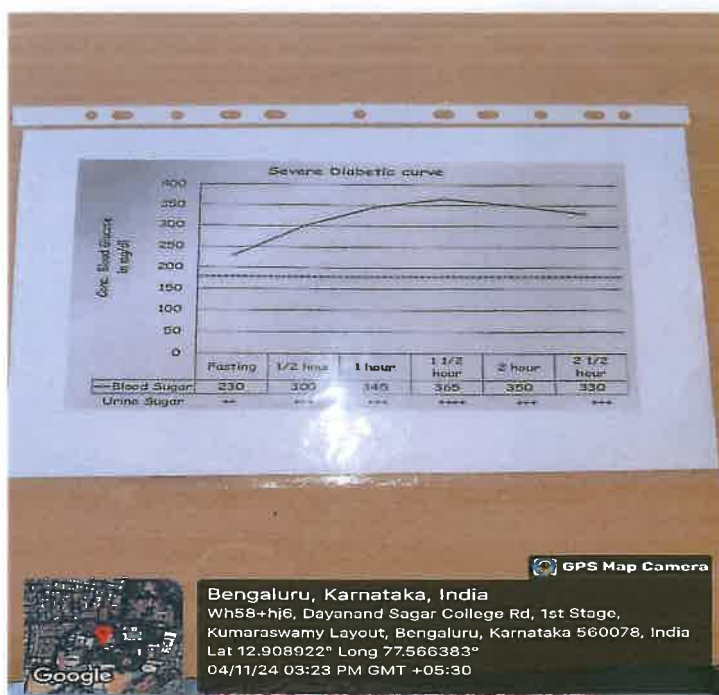
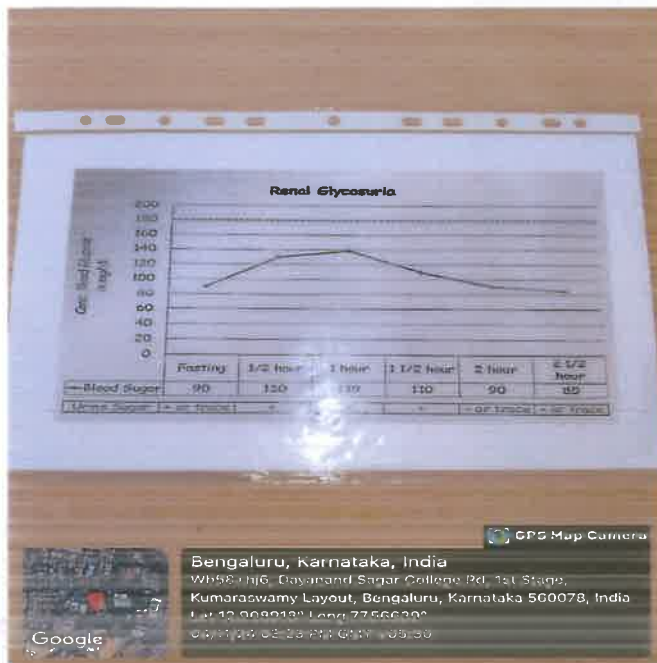
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ITEM	VALUE IN 24 HOURS
1. Air Quality Index (AQI)	10-15
2. Rainfall (mm)	0-10
3. Humidity (%)	60-70
4. Wind Speed (km/h)	10-15
5. Temperature (°C)	25-30
6. Cloud Cover (%)	10-20
7. UV Index	1-2
8. Air Pollution (PM2.5)	10-15
9. Air Pollution (PM10)	20-30
10. Air Pollution (SO2)	10-15
11. Air Pollution (NO2)	10-15
12. Air Pollution (CO)	10-15
13. Air Pollution (O3)	10-15
14. Air Pollution (H2S)	10-15
15. Air Pollution (NH3)	10-15
16. Air Pollution (HCl)	10-15
17. Air Pollution (HF)	10-15
18. Air Pollution (HNO3)	10-15
19. Air Pollution (H2SO4)	10-15
20. Air Pollution (H2O2)	10-15
21. Air Pollution (H2O)	10-15
22. Air Pollution (H2O2)	10-15
23. Air Pollution (H2O)	10-15
24. Air Pollution (H2O2)	10-15
25. Air Pollution (H2O)	10-15
26. Air Pollution (H2O2)	10-15
27. Air Pollution (H2O)	10-15
28. Air Pollution (H2O2)	10-15
29. Air Pollution (H2O)	10-15
30. Air Pollution (H2O2)	10-15

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05/11/24 09:04 AM GMT +05:30

ITEM	VALUE IN 24 HOURS
1. Air Quality Index (AQI)	10-15
2. Rainfall (mm)	0-10
3. Humidity (%)	60-70
4. Wind Speed (km/h)	10-15
5. Temperature (°C)	25-30
6. Cloud Cover (%)	10-20
7. UV Index	1-2
8. Air Pollution (PM2.5)	10-15
9. Air Pollution (PM10)	20-30
10. Air Pollution (SO2)	10-15
11. Air Pollution (NO2)	10-15
12. Air Pollution (CO)	10-15
13. Air Pollution (O3)	10-15
14. Air Pollution (H2S)	10-15
15. Air Pollution (NH3)	10-15
16. Air Pollution (HCl)	10-15
17. Air Pollution (HF)	10-15
18. Air Pollution (HNO3)	10-15
19. Air Pollution (H2SO4)	10-15
20. Air Pollution (H2O2)	10-15
21. Air Pollution (H2O)	10-15
22. Air Pollution (H2O2)	10-15
23. Air Pollution (H2O)	10-15
24. Air Pollution (H2O2)	10-15
25. Air Pollution (H2O)	10-15
26. Air Pollution (H2O2)	10-15
27. Air Pollution (H2O)	10-15
28. Air Pollution (H2O2)	10-15
29. Air Pollution (H2O)	10-15
30. Air Pollution (H2O2)	10-15

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