



MAHE INSTITUTE OF DENTAL SCIENCES & HOSPITAL

Affiliated to Pondicherry Central University, Recognized by Dental Council of India

Chalakkara, P.O. Pallor, Mahe-673 310

U.T. of Puducherry. Ph : 0490 2337765

3.2. INNOVATION ECOSYSTEM



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S.No	Name of the Department/Lab	Innovation/Application
1.	Laser captivating technology	Students can be trained by using Laser technology 1. Caries prevention 2. Bleaching. 3. Restorative removal 4. Cavity preparation. 5. Dentinal hypersensitivity 6. Growth modulation 7. Removal of hyperplastic tissue
2.	Trinocular Research Microscope BX53	P.G student can be trained by suing Trinocular Microscope 1. <u>Polarizing microscope:</u> 1. Efficiently provides cytopathological and histopathological reports. 2. Variety of lesions such as premalignant and malignant lesions can be studied 3. Soft tissue tumors, Salivary gland Tumors & Odontogenic cysts and tumors can be demonstrated 4. Studies related to birefringent materials (Enamel, Disease related to Amyloid etc) 5. Studies related to Dental caries & mineralization 6. Studies related Connective tissue disorders (to compare mature & immature fibres) 2. <u>Darkfield Microscope:</u> 1. To demonstration of <i>SpiroTreponema pallidum</i> in clinical specimens. 2. To demonstration motility of the bacteria and protozoa. 3. Darkfield is used to study mounted cells and tissues 3. <u>Phase contrast Microscope:</u> To produce high-contrast images of transparent specimens, such as:- 1. living cells (usually in culture), 2. microorganisms, 3. Thin tissue slices, 4. lithographic patterns,



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		3.6 Subcellular particles (including nuclei and other organelles).
3.	Research Lab	1. <u>Laminar Air flow</u> 1. Aseptic culture techniques and culture methods can be carried out. 2. Clinical samples can be proceed 2. <u>Autoclave</u> 1. To sterilization of Surgical items 2. To sterilization of bacterial culture medias 3. To decontaminate specific biological waste 4. To sterilize medical equipment and glassware 3. <u>Incubator & Anaerobic jar</u> 1. To grow microbial culture or cell cultures 2. To grow and recover the anaerobic pathogens 4. <u>Water bath</u> 1. Serological assay can be done 2. Maintaining bacterial suspension culture

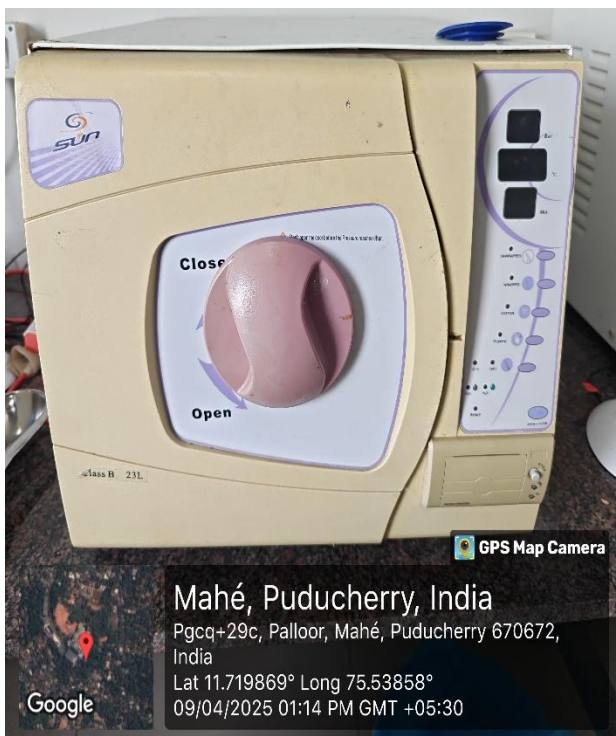


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LAMINAR AIR FLOW



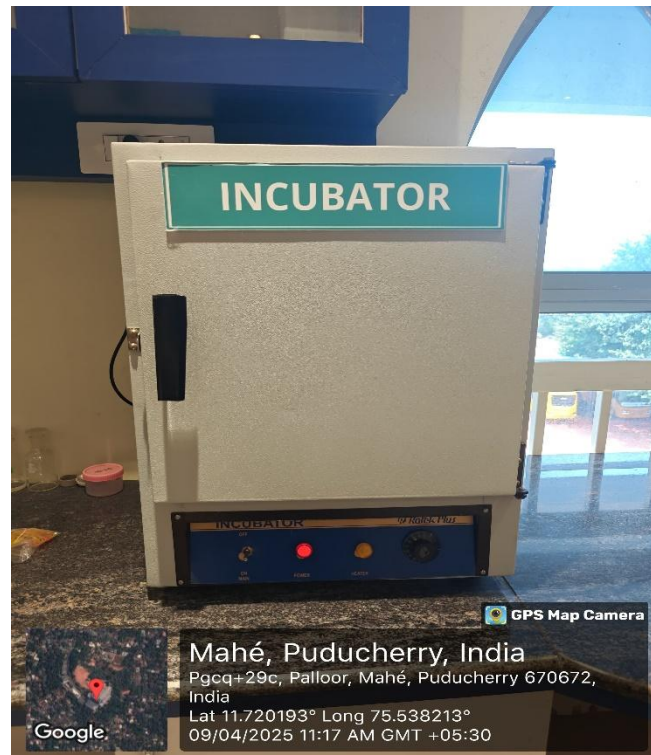
AUTOCLAVE



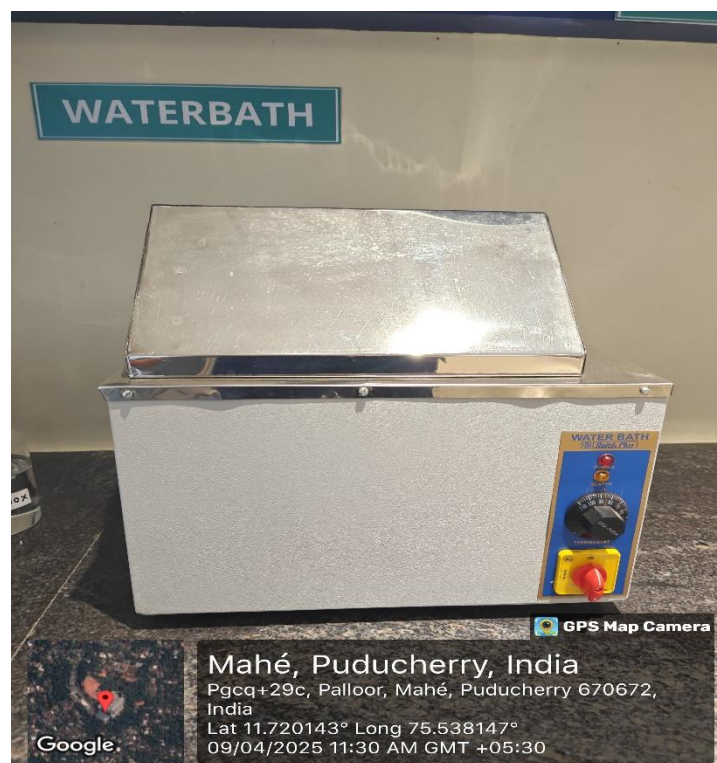


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INCUBATOR



WATER BATH





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AUTOCLAVE



RESEARCH MICROSCOPE



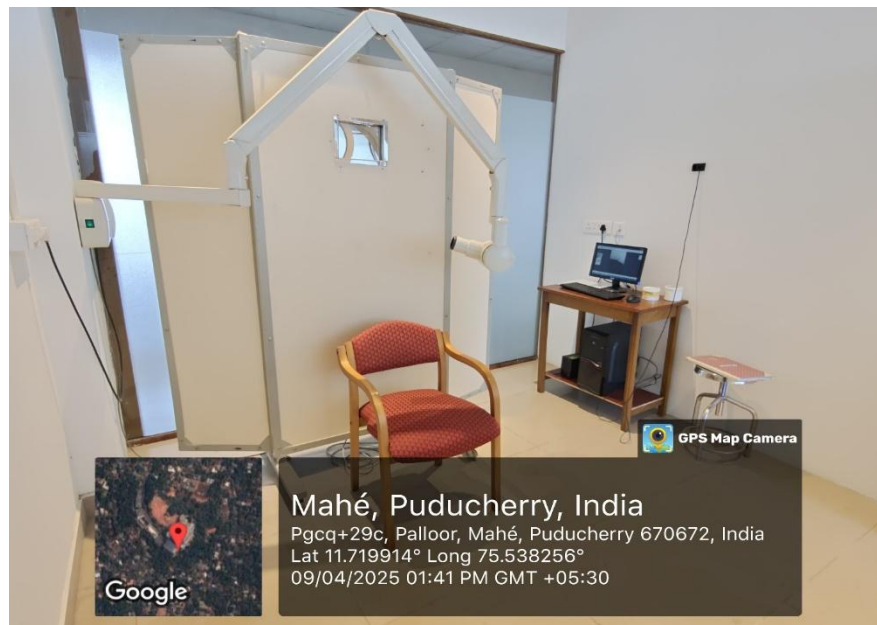
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PENTA HEAD MICROSCOPE



ENDODONTIC MICROSCOPE

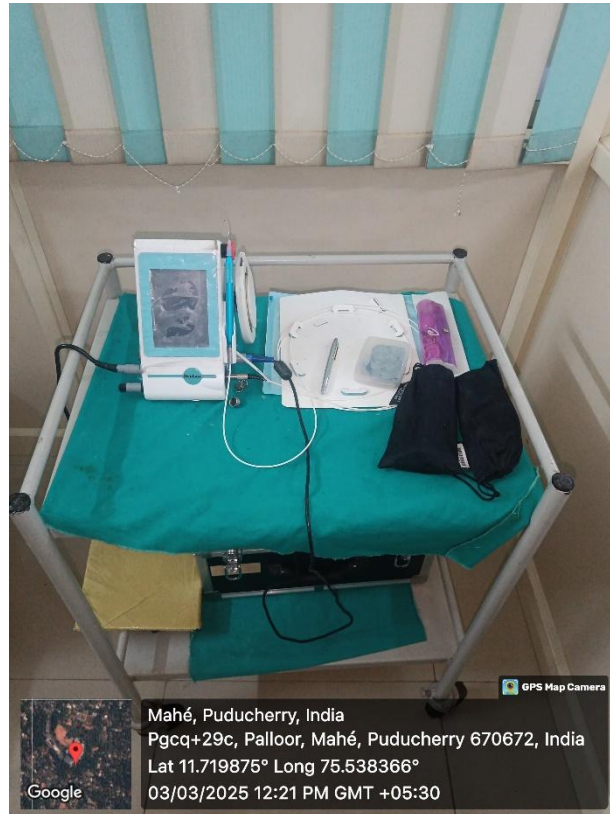


RADIO VISIOGRAPHY

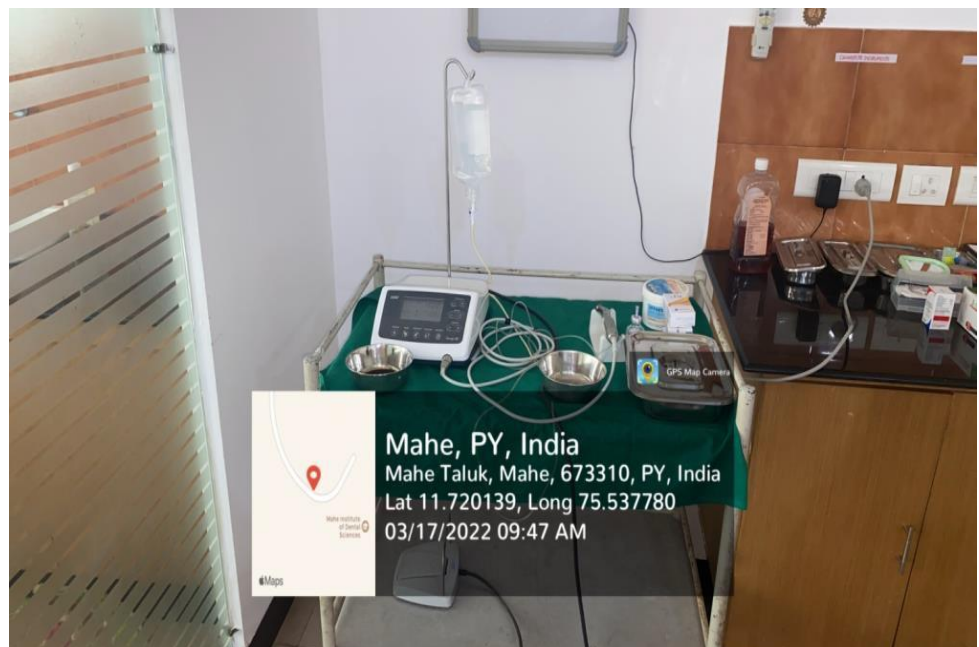


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LASER KIT



PEIZO IMPLANT KIT

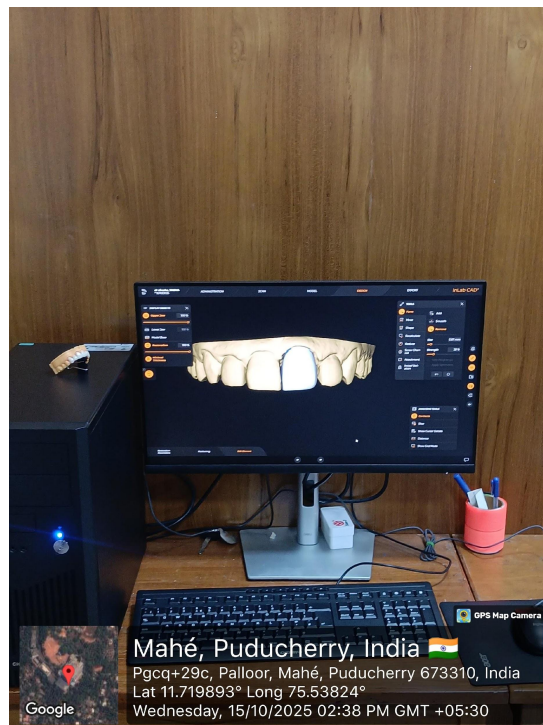




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CAD CAM





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CBCT