



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	<p>Students can be trained by using Laser technology</p> <ul style="list-style-type: none"> 1.1 Caries prevention 1.2 Bleaching. 1.3 Restorative removal 1.4 Cavity preparation. 1.5 Dentinal hypersensitivity 1.6 Growth modulation 1.7 Removal of hyperplastic tissue
2.	Trinocular Research Microscope BX53	<p>P.G student can be trained by suing Trinocular Microscope</p> <p><u>1. Polarizing microscope:</u></p> <ul style="list-style-type: none"> 1.1 Efficiently provides cytopathological and histopathological reports. 1.2 Variety of lesions such as premalignant and malignant lesions can be studied 1.3 Soft tissue tumors, Salivary gland Tumors & Odontogenic cysts and tumors can be demonstrated 1.4 Studies related to birefringent materials (Enamel, Disease related to Amyloid etc) 1.5 Studies related to Dental caries & mineralization 1.6 Studies related Connective tissue disorders (to compare mature & immature fibres) <p><u>2.Darkfield Microscope:</u></p> <ul style="list-style-type: none"> 2.1 To demonstration of Spiro<i>Treponema pallidum</i> in clinical specimens. 2.2 To demonstration motility of the bacteria and protozoa. 2.3 Darkfield is used to study mounted cells and tissues <p><u>3. Phase contrast Microscope:</u></p> <p>To produce high-contrast images of transparent specimens, such as:-</p> <ul style="list-style-type: none"> 3.1 living cells (usually in culture), 3.2 microorganisms, 3.3 Thin tissue slices, 3.4 lithographic patterns, 3.5 Glass fragments, and



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		3.6 Subcellular particles (including nuclei and other organelles).
3.	Research Lab	1. <u>Laminar Air flow</u> 1.1 Aseptic culture techniques and culture methods can be carried out. 1.2 Clinical samples can be proceed 2. <u>Autoclave</u> 2.1 To sterilization of Surgical items 2.2 To sterilization of bacterial culture medias 2.3 To decontaminate specific biological waste 2.4 To sterilize medical equipment and glassware 3. <u>Incubator & Anaerobic jar</u> 3.1 To grow microbial culture or cell cultures 3.2 To grow and recover the anaerobic pathogens 4. <u>Water bath</u> 4.1 Serological assay can be done 4.2 Maintaining bacterial suspension culture

AUTOCLAVE



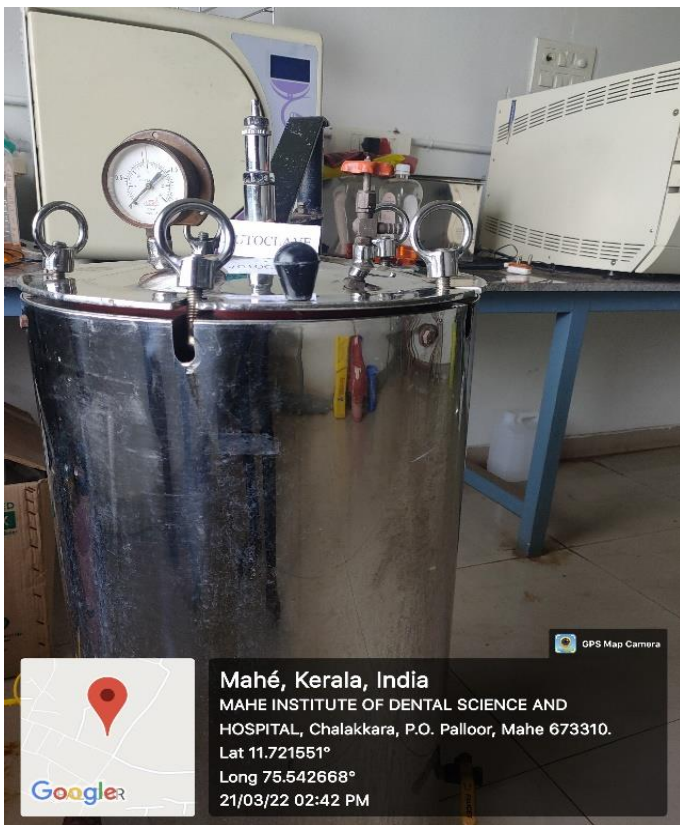


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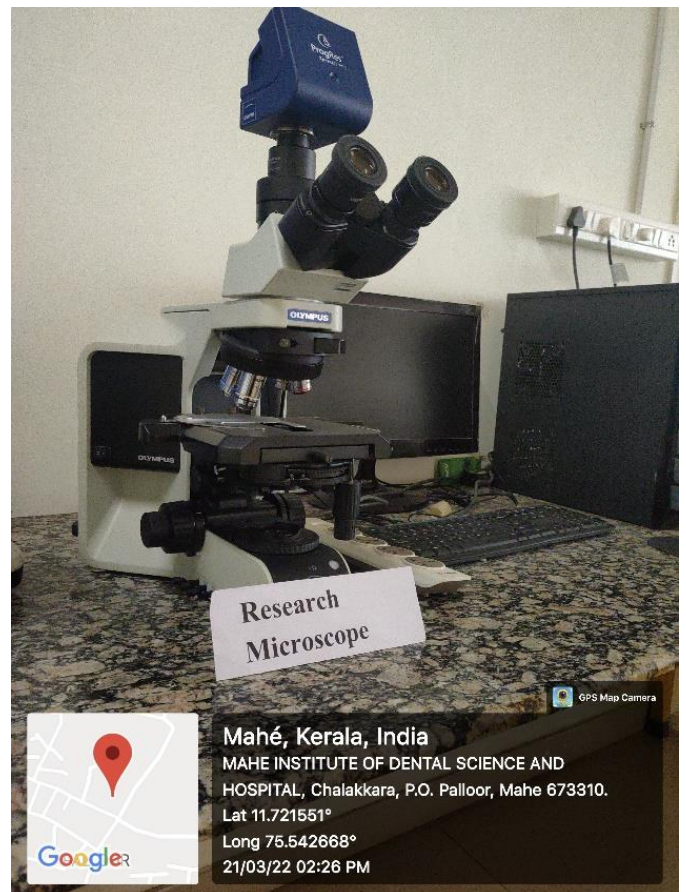
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AUTOCLAVE



RESEARCH MICROSCOPE



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PENTA HEAD MICROSCOPE



ENDODONTIC MICROSCOPE



RADIO VISIOGRAPHY



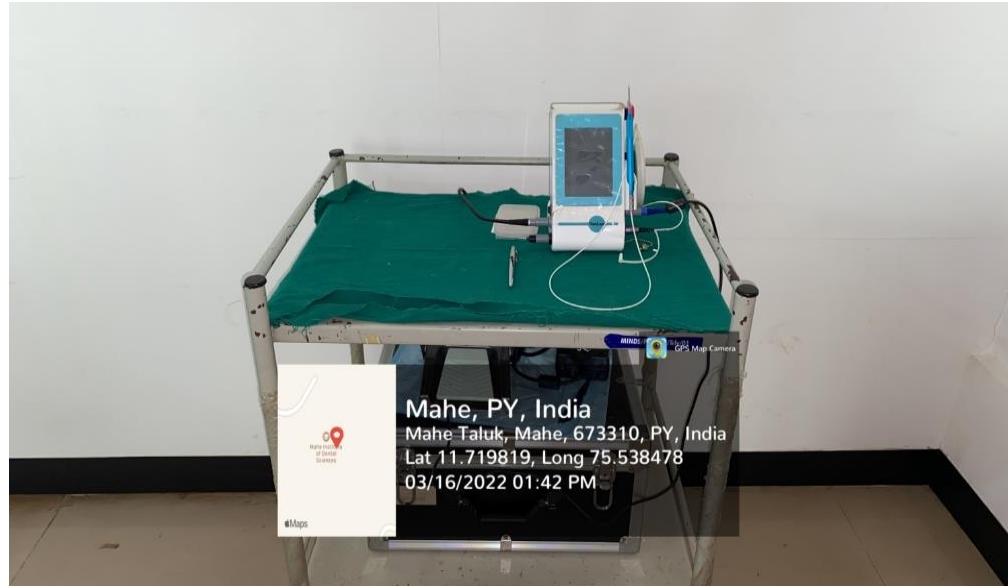
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LASER KIT



PEIZO IMPLANT KIT

